The accompanying comparison charts summarize the characteristics of 277 commercially available alphanumeric display terminals from 87 vendors. Nearly all of the information was supplied by the manufacturers during the months of February and March 1979. Their cooperation is acknowledged and greatly appreciated.

Datapro sent repeated requests for information to 106 companies known or believed to be in the display terminal business. The 87 usable responses summarized in our charts provide a comprehensive picture of the commercial display terminals that are currently available in the United States and Canada. The absence of any specific company from our charts means that the company either failed to respond to our repeated information requests or was unknown to us.

The chart entries and their significance are explained in the following paragraphs.

Terminal Description

Display terminals are available in one of two basic terminal configurations: stand-alone and cluster. Standalone units are typically those that contain all components that support the operation of the terminal including display, keyboard, interface, and power supply within a single cabinet. Auxiliary units such as printers, cassette tape drives, etc., are usually external devices. Sometimes a stand-alone unit includes separate cabinets for terminal control and keyboard/display sections, and it may even include one or two separate displays. A cluster configuration typically includes a terminal control unit and a number of individual cable-connected keyboard/display units. which can often be located several thousand feet from the controller. In some cases, the vendor provides a multiplexer that accommodates a cluster of stand-alone terminals. A local cluster arrangement refers to a terminal that can be attached directly to a computer I/O channel and can operate as an on-line peripheral subsystem. A remote cluster arrangement refers to a terminal that is connected to the host computer via a communications facility. The size of a cluster arrangement is defined by the maximum number of displays per controller.

Terminals that are designed to be hand-held, such as the Taumark Tera or the Termiflex HT Series, or to be hand-carried, like the Microterm ACT-1A (9 lbs.) or Terminal Data 675 (19 lbs.) are noted in the entry portable case.

Some terminals are designed as direct replacements for other terminals. In the alphanumeric display terminal market, replacement terminals fall into four principal categories: those designed to replace an IBM 3270 and/or 3275, those designed to replace an IBM 2260 and/or

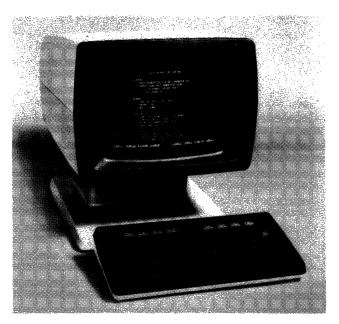
A review of specific characteristics of alphanumeric display terminals.

Comparison charts on 277 commercially available models from 87 vendors are included.

For a general discussion of display terminals and buying guidance, including comprehensive user ratings, see Report C09-025-101 behind the Management/System Guides tab in Volume 1.

2265, those designed to replace a Teletype Model 33 and 35 teleprinter, and those designed to replace a Teletype Model 40 display terminal. Some vendors provide compatibility with *other* terminals such as those produced by Burroughs, Digital Equipment, Honeywell, and Univac. For example, no fewer than six vendors—Ann Arbor, Infoton, Datamedia, Dataview, Teleray, and Ontel—are currently marketing units compatible with Digital Equipment's popular VT-52 terminal, and several more have plans to offer VT-52 compatibility in the near future.

Either of two types of compatibility may be offered: transmission compatibility or "plug-to-plug" compatibility. Transmission compatibility requirements include identical protocol, code and unit code structure, timing,



Introduced in October 1978, the Hewlett-Packard 2621A CRT terminal typifies the newest "smart" terminals. Its clean-cut, attractive cabinet is suitable even for the most stylish office environments, and its detachable keyboard is designed for operator convenience. Standard features include two full pages of continuous scrolling memory, full editing functions, and eight program function keys. Its sister unit, the HP 2621P, has an 80-column serial printer integrated into the cabinet. Basic prices for the 2621A and 2621P are \$1,450 and \$2,250, respectively.

> asynchronous or synchronous operation, and transmission speed. Some vendors even provide identical cables, which is a cost-effective consideration in a local cluster environment. Most vendors with transmission-compatible units offer additional features and functions that the original vendor's equipment does not have, implemented via minor changes in host software. Units with true plugto-plug compatibility not only have identical transmission parameters, but also identical features and functions; no alteration to host software is necessary, but no enhancements beyond the original vendor's equipment are available. For example, although numerous vendors offer IBM 3270 compatibility, only a few, including Courier, Memorex, Telex, Trivex, and Wordstream (Genesis One), make a true plug-for-plug replacement for the 3277 display station.

Programmability for processor-controlled terminals can be implemented via a combination of different techniques. The entry user-programmable defines the capability for the terminal to operate under the direction of a user-created application program stored within the terminal. This requires the provision of an assembly-like language at the very least. Programmability via user-defined parameters or user-defined firmware refers to the use of fixed programs, such as a data entry program where the user defines field length and type, duplication, skipping, etc.

The entry self diagnostics denotes the terminal's capability to identify failures via self-generated test procedures. Failures are typically indicated by displayed text patterns, by indicator lamps, or by messages appearing on the 25th line of the display screen. Self-diagnostics are typically performed while the terminal is in the off-line mode.

Display Parameters

Printed information is generally arranged according to an orderly format consisting of a maximum number of printed lines per page and characters per line. This orderly arrangement is also used to characterize the arrangement of data display on the face of a CRT screen or other display device. The electronic circuitry that produces the display image is designed to a specified set of parameters that define the capacity (i.e., the maximum number of display positions) and the display format (i.e., the maximum number of displayable lines and displayable characters per line). The most common display capacity is 1920 characters arranged in 24 lines of 80 characters. A few vendors, including Alanthus, Datagraphics, DEC, and ECD, offer 132-character display lines, which can eliminate the need to revise or patch software designed for standard 132-column printers or to maintain dual sets of programs for 80-column and 132-column output. Information is displayed in a rectangular area smaller than the total surface area of the display device. The factors that determine the required size of the display area are the display arrangement and the size of the displayable characters, which is normally a fixed parameter.



One family of terminals that added new microprocessor-based models within the past year is the Lear-Siegler ADM Series. Not only do the two new models, the ADM-42 (pictured above) and the ADM-31, offer more features and functions than their predecessors, but they also cost less. Prices start at \$1,450 for the ADM-31, which includes full editing functions and a two-page memory, and \$1,795 for the more sophisticated ADM-42.

Symbol formation and the set of displayable symbols are functions of the character generator, which accepts coded characters (typically ASCII) from the computer and keyboard and converts them to a number of dots or strokes so that the form of the symbol or image can be displayed. In CRT's, characters are formed by a variety of techniques, including dots, strokes, starburst, or monoscope. The dot technique is by far the most popular. Each character is formed within a matrix of dots, and only those dots required to form the specific character are intensified. Typically, a dot matrix contains 35 dots arranged 7 dots high by 5 dots wide. Characters can be made clearer by increasing the number of dots within the matrix. The stroke technique forms characters by drawing short straight lines between specified points.

Solid-state display devices, such as plasma (gas) and LED (Light Emitting Diodes) are gaining popularity, but at present are generally limited to small display capacities consisting of a few characters. These typically form a character image in much the same way as a CRT display (i.e., via a dot matrix), though some form symbols through line segments.

Display arrangement, display medium, and symbol formation all have a great impact on display clarity. Test several units to decide which is easiest on the operator's eyes.

- Attention can be drawn to vital information and different types of significant data can be visually separated by the use of the following display features:
 - Color—characters or fields can be separated by color, which can also be used to identify conditions or types of data. A few vendors, including Applied Digital, Intelligent Systems, Megadata, and Terminal Data, offer up to eight colors as a standard feature; several other vendors offer a color option.
 - Reverse video—displays a negative image of data, i.e., data normally displayed in white on a dark background is displayed in black on a white background. Characters or fields can be displayed in reverse video.
 - Programmable brightness levels—visually separates different kinds of displayed information by displaying each type of a different intensity level, such as a fixed format and the entered data.
 - Character and/or field blinking—vital information consisting of a single character or an entire field is blinked to attract attention.

Some terminals offer several of these display features, which can be combined to produce even more effective results.

Some applications require viewing more data than can be displayed at one time. The following features satisfy this need:

- Roll (or scroll)—this feature moves all displayed lines of data up or down by one line as a new line is added and an existing one removed. In some cases, the first line is linked with the last so that the data is rolled but not lost. Typically, data is lost as it rolls off the screen. This feature permits the user to scan through a volume of data to locate key information.
- Paging—this feature stores two or more frames or pages of data and displays any selected page.

Although roll and paging features can be software implemented in the host computer, the comparison chart entry applies to *only* those terminals that implement the features via hardware or firmware.

Many terminals provide the roll feature, but relatively few provide paging. Some provide both features.

The cursor marks the position on the screen where the next character will be read or written from memory. Cursor controls enable the operator to maneuver the cursor on the screen and facilitate the input and output of data. Typical cursor controls include:

 Move left (L)—moves the cursor one space to the left, which can be from the initial character position of a line to the last character position of the previous line if the terminal features wraparound.

- Move right (R)—moves the cursor one space to the right, which can be from the last character position of a line to the first character position of the next line if the terminal features wraparound.
- Move up (U)—moves the cursor to the same position on the previous line, which can be from the first line to the last line if the terminal features wraparound.
- Move down (D)—moves the cursor to the same position on the following line, which can be from the last line to the first line if the terminal features wraparound.
- Home top (H)—moves the cursor to the initial character position of the first line.
- Home bottom—moves the cursor to the initial character position of the last line.
- Tab—moves the cursor forward to the next tab stop or backward to the previous tab stop (backtab).
- Return (RT)—moves the cursor to the initial character position of the next line; this is identical to the carriage return function of a typewriter.
- Backspace—moves the cursor one space to the left.
- Line Feed—moves the cursor to the same position on the following line.

Some cursors blink, others keep moving as long as the control key remains depressed. All cursors should be of the nondestructive type. Different manufacturers use a variety of symbols to indicate the cursor position on the



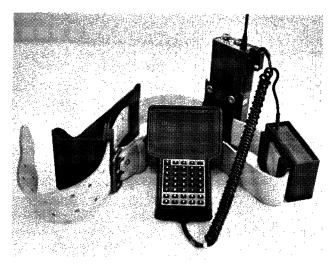
Probably the most significant new entrant in the alphanumeric display terminal market in the past year is Anderson Jacobson, which introduced its first CRT terminal, the AJ 510, in November 1978. Anderson Jacobson, a popular maker of teleprinter terminals, plans to add other CRT models to its offerings in 1979. The basic price of the AJ 510, a "smart" terminal featuring full editing functions, is \$1,995; one- and two-year leases start at \$89 and \$81 per month, respectively.

screen. Some terminals also have addressable/readable cursors, which enable the position of the cursor to be written or read by the host computer under program control.

Most businesses use printed forms for daily activities such as billing, ordering, payroll, etc. Some CRT terminals can duplicate the printed form on the face of the screen, and data can be keyed into the blank spaces just as the typist enters data into a printed form. This "fill-in-the-blanks" approach to data entry requires a protected format capability. Display terminals that incorporate this feature treat the fixed format differently from keyed data. Field identifiers such as "name" or "salesman number" are protected from inadvertent key entry, and data entry is confined to the variable fields (blank spaces) following the field identifiers. Some terminals automatically tab to the beginning of the next variable field immediately following the entry of the character that completes each field. The tab key is used where a field is partially filled.

Having completed entry into the fixed format, the operator transmits the data to the central computer. A feature called *partial screen transmit* promotes line economies by transmitting only the keyed data; the fixed format remains displayed and the "blanks" are erased for the next entry. This feature is also useful for transmitting only a portion of the displayed data such as a field, line, or block.

Editing features in a display terminal can consist of any combination of the functions listed below, although the best terminal for editing purposes would include all of them. Each function is performed with respect to the cur-



The wide variety of equipment available within the category of general-purpose alphanumeric display terminals is illustrated by the Taumark Tera. Introduced in July 1978, the handheld Tera is a fully interactive terminal designed for applications where operator freedom of movement is required. It features a 40-key alphanumeric keyboard, a 64-character display, and a choice of ASCII or EBCDIC character sets. A belt-carried radio sends/receives data to/from a centrally located controller, which transmits to the host computer.

rent position of the cursor. The desirable editing functions are:

- Character insert—the capability to insert a character into an existing line of displayed text; the remaining characters shift to the right or "spread" to accommodate the added character. The spreading capability may terminate at the last character position of the line or at the last displayable position on the screen. Data is lost when it is spread beyond the termination point.
- Character delete—the capability to delete a character from an existing line of displayed text; the remaining text closes up when the character is deleted.
- Line insert—the capability to insert a line of text into existing text; the text spreads to accommodate the added line.
- Line delete—the capability to delete a line of text from existing text; the remaining text closes up when the line is deleted.
- Erase—the capability to erase a character, line of text, message, field, or the complete screen. Most terminals include character erase and some form of display erase, which may erase the entire contents of the display, just that portion following the cursor location, or a combination of both functions. Line erase is optional in many terminals.
- Character repeat—enters a continuous sequence of symbols as long as the appropriate key remains depressed.

Keyboard Parameters

Keyboard *style* defines the general arrangement of keys; e.g., typewriter or data entry (keypunch) style. Data entry keyboards have a numeric keypad embedded in the alphabetic part of the keyboard which is accessed via a numeric shift. The *character/code set* refers to the set of symbols that appear on the keytops and, in many cases, to the actual character codes generated for each key depression, such as ASCII, EBCDIC, APL, etc. Some terminals are available with more than one keyboard style to satisfy particular user needs.

Keyboards that can either fit flush against the display or be located some distance away via cable connection are referred to as *detachable* keyboards. This feature provides increased configuration flexibility and operator convenience.

Some terminals are available with program function keys. These are special keys whose character codes are interpreted by the user's program. A function key is used to



The Data General Dasher Model 6053 illustrates some of the human design factors that can make a terminal more convenient and easier to use. The monitor is pedestal-mounted, can be tilted and swiveled, and is fitted with a non-glare screen. The detachable keyboard features both a numeric and a function keypad, and can be placed up to four feet away from the monitor for operator convenience.

reduce the number of required input keystrokes to save time and reduce the number of input errors. Depressing one key could instruct the system to "sell one seat" or "call Chart A," for example.

A numeric keypad is a special keyboard feature that includes a set or block of 10 numeric keys, usually located to the right of the main keygroup. These numeric keys are arranged in an adding-machine format and are particularly useful for applications that require a high volume of numeric entries or arithmetic calculations.

Ancillary Devices

External I/O devices can add considerable flexibility to the applications possibilities for display terminals. A cassette tape drive or diskette drive can be used to store display formats, data to be transmitted, or user programs in the case of intelligent terminals. A serial printer provides hard copy when required.

These devices can usually be added to a terminal by the user via the terminal's RS-232 serial interface. The device is attached between the terminal and the external modem.

Although the above I/O devices are the most common, other devices can be and are used, such as industry-compatible 7- or 9-track magnetic tape drives, disk drives (cartridge or pack type), line printers, card readers, etc. Many units have an audible alarm which sounds whenever the operator's attention should be drawn to the prompting message area of the screen. Composite video

permits multiple monitors to be attached to the terminal so that data may be viewed on more than one screen at the same time.

Transmission Parameters

Nearly every display terminal contains a communications interface that enables communications between the terminal and the central computer site. Mode and technique define the operating mode and the method in which data is transmitted. There are three operating modes: simplex (transmission in one direction only), half duplex (transmission both directions, but not simultaneously), and full duplex (simultaneous transmission in both directions).

Data is transmitted synchronously or asynchronously. Asynchronous transmission is characterized by the transmission of data in irregular spurts, where the duration of time can vary between successive transmitted characters; the transmission from an unbuffered teletypewriter is a good example. Synchronous transmission implies the transmission of data in a steady stream. The time interval between successive characters is always precisely the same. The communications interface either provides clocking or accepts external clocking signals from the data set.

Communications protocol refers to the type of line discipline (control code sequence and control characters) that the terminal employs. The two most commonly used protocols are ASCII and IBM's binary Synchronous Communications (BSC) technique. IBM's latest protocol, Synchronous Data Line Control (SDLC), will be widely used in the future. Other large mainframe vendors such as Burroughs, Honeywell, and Digital Equipment Corporation (DEC) have produced their own communications protocols.

The transmission *code* refers to the bit pattern of the transmitted characters. Two codes are prominent: EBCDIC and ASCII. The latter has been accepted as an industry and government standard, and is now the most commonly used code by display terminals.

The CRT terminal is a high-speed device that is usually capable of transmitting and receiving several thousand characters per second; however, it must run at a speed that is compatible with the communications system in which it is used. Most terminals are used on voice-grade facilities, which limit the transmission *speed* to a practical maximum of 4800 bits per second over the dial network and 9600 bits per second over leased or private lines.

Message format refers to the way data is transmitted, e.g., by block, by line, or by character. Terminals that are designed to be transmission-compatible with a Teletype unit transmit a character for each key depression. Buffered terminals transmit data in multi-character blocks. The line or block mode permits data to be composed and edited prior to each transmission and generally permits more efficient utilization of the communications facility. Some terminals offer manual selection between the modes.

Multipoint operation characterizes terminals that are capable of operating in a multiple-terminals-per-line environment such as that employed by the IBM 3270 and 2260/2265 display terminals. Basic to implementing this capability is the ability of a terminal to distinguish a control message intended for it alone. Polling invites the terminals to send data. Addressing informs the terminal that a message from the central computer is coming, so that it will be conditioned to receive. Central control of the message traffic is maintained by the central computer.

Auto answer refers to the facility for unattended operation on the dial network whereby incoming calls are automatically answered and messages are received without human intervention.

Auto call refers to the facility for unattended operation on the dial network whereby outgoing calls are automatically "dialed" and messages are transmitted without human intervention.

Display terminals usually have a terminal interface that meets the standards of the EIA RS-232B/C specification or some other standard interface and connects to an external modem or acoustic telephone coupler.

Some terminals contain an *integral modem* that can be connected directly to a communications line. In some cases the vendor provides an integral *acoustic telephone coupler*, so that the terminal can be connected to a conventional telephone handset.

Pricing and Availability

Terminal pricing is provided for unit quantities (one terminal) unless otherwise specified. One- and two-year lease prices, including maintenance, and purchase prices are shown for the complete terminal (including keyboard, display, and controller) for stand-alone units, and for the keyboard/display station and terminal controller for cluster units.

Single entries generally indicate the price of the basic unit without options; price ranges show the price of the basic unit and the price of an expanded unit with all options, or the price of the low end and high end of a multiple-unit family. In general, all prices exclude ancillary devices. In some cases, the terminal vendor offers a lease term other than those shown, such as a 4- or 5-year lease or a 30- or 60-day, short-term rental. In such cases, the lease prices and terms appear in the Comments at the bottom of the charts.

Many terminal vendors do not lease their equipment, and in these cases you'll find dashes in the lease price entries. Also, a number of terminal makers sell their wares on an OEM basis only, for incorporation into systems supplied by other vendors. Quantity discounts, and discounts for educational and other institutions, are often available.

Date of first production delivery indicates when the first production model of each terminal was delivered (or is scheduled to be delivered) to a customer.

Display units installed to date shows how many display units of each type had been delivered to customers as of approximately March 1, 1979. All figures were supplied by the vendors themselves, and a number of companies chose not to release this information.

Serviced by specifies the party responsible for maintaining the terminal. In some cases the vendor provides total service; in others a national service organization is responsible. Service is sometimes rendered under the combined efforts of both the vendor and an independent service organization; usually in this situation, the vendor handles those areas close to his headquarters or where it has a multiplicity of installations, and the service company handles other geographical areas.



This Western Union terminal configuration, which includes a Video 200 terminal, a serial impact printer, and dual floppy disk drives, illustrates the types of ancillary devices which can be interfaced with display terminals. Other devices include cassette or cartridge tape drives, disk drives, line printers, magnetic stripe, card, and tape readers, optical character and bar code wand readers, and paper tape punches.

➤ Comments

Comments at the bottom of the charts describe significant or unusual features, capabilities, or applications which are not reflected in the standard entries.

Vendors

Listed below, for your convenience in obtaining additional information, are the full names and addresses of the 87 vendors whose products are summarized in the comparison charts.

Alanthus Data Communications Corporation (formerly Leasco), 6011 Executive Boulevard, Rockville, MD 20852. Telephone (301) 770-1150.

Anderson Jacobson, Incorporated, 521 Charcot Avenue, San Jose, CA 95131. Telephone (408) 263-8520.

Ann Arbor Terminals, Inc., 6107 Jackson Road, Ann Arbor, MI 48103. Telephone (313) 769-0926.

Applied Digital Data Systems, Inc., 100 Marcus Boulevard, Hauppauge, NY 11787. Telephone (516) 231-5400.

Applied Dynamics International, 3800 Stone School Rd., Ann Arbor, MI 48104. Telephone (313) 973-1300.

Beehive International, 4910 Amelia Earhart Drive, Box 25668, Salt Lake City, UT 84125. Telephone (801) 355-6000.

The Braegen Corporation, 20740 Valley Green Drive, Cupertino, CA 95014. Telephone (408) 255-4200.

Bunker Ramo Corporation, Trumbull Industrial Park, Trumbull, CT 06609. Telephone (203) 377-4141.

Burroughs Corporation, Room 4D20, Burroughs Place, Detroit, MI 48232. Telephone (313) 972-8068.

Cado Systems Corporation, 2730 Monterey Street, Torrance, CA 90503. Telephone (213) 320-9660.

Compugraphic Corporation, 80 Industrial Way, Wilmington, MA 01887. Telephone (617) 944-6555.

Computek, Inc., 63 Second Avenue, Burlington, MA 01803. Telephone (617) 272-8100.

Computer Optics, Inc., Berkshire Industrial Park, Bethel, CT 06801. Telephone (203) 744-6720.

Computer Peripheral Corporation, 1225 Connecticut Avenue, Bridgeport, CT 06607. Telephone (203) 333-8339.

Computer Peripheral Services Corporation, 3187-F Airway Avenue, Costa Mesa, CA 92626. Telephone (714) 540-0798.

Conrac Corporation, Conrac Division 600 N. Rimsdale Avenue, Covina, CA 91722. Telephone (213) 966-3511.

Control Data Corporation, 8100 34th Avenue South, Minneapolis, MN 55440. Telephone (612) 853-4656.

Courier Terminal Systems, Inc., a Division of ITT, 1515 W. 14th St., Tempe, AZ 85281. Telephone (602) 275-7555.

Data General Corporation, Route 9, Westboro, MA 01581. Telephone (617) 366-8911.

Data 100 Corporation, 6110 Blue Circle Drive, Minnetonka, MN 55343. Mailing address: P.O. Box 1222, Minneapolis, MN 55440. Telephone (612) 932-8000.

DatagraphiX, Inc., P.O. Box 82449, San Diego, CA 92138. Telephone (714) 291-9960.

Datamedia Corporation, 7300 N. Crescent Boulevard, Pennsauken, NJ 08110. Telephone (609) 665-2382.

Datapoint Corporation, 9725 Datapoint Drive, San Antonio, TX 78284. Telephone (512) 699-7000.

Dataview, Inc., 23A Dana Street, Malden, MA 02148. Telephone (617) 322-2244.

Delta Data Systems Corporation, Woodhaven Industrial Park, Cornwells Heights, PA 19020. Telephone (215) 639-9400.

Digi-log Systems, Inc., Babylon Road, Horsham, PA 19044. Telephone (215) 672-0800.

Digital Equipment Corporation (DEC), Main Street, Maynard, MA 01754. Telephone (617) 897-5111.

ECD Corporation, 196 Broadway, Cambridge, MA 02139. Telephone (617) 661-4400.

EECO, 1441 East Chestnut Avenue, Santa Ana, CA 92701. Telephone (714) 835-6000.

Elbit U.S.A. (a subsidiary of Elbit Computers, Ltd.), 8100 34th Avenue South, Box O, Minneapolis, MN 55440. Telephone (612) 853-7050.

Four-Phase Systems, Inc., 10700 N. De Anza Boulevard, Cupertino, CA 95014. Telephone (408) 255-0900.

Goodwood Data Systems, Ltd., (formerly I.P. Sharp Associates, Ltd.), 150 Rosamond Street, P.O. Box 210, Carleton Place, Ontario, Canada K7C 3P4. Telephone (613) 257-3610.

Harris Corporation, Data Communications Division, 16001 Dallas Parkway, P.O. Box 400010, Dallas, TX 75240. Telephone (214) 386-2000.

Hazeltine Corporation, Greenlawn, NY 11740. Telephone (516) 261-7000.

Hewlett-Packard, Data Terminals Division, 19400 Homestead Road, Cupertino, CA 95014. Telephone (408) 257-7000.

Honeywell Information Systems, Inc., 200 Smith Street, Waltham, MA 02154. Telephone (617) 890-8400.

Human Designed Systems, Inc., 3700 Market Street, Philadelphia, PA 19104. Telephone (215) 382-5000.

Incoterm Corporation, 65 Walnut Street, Wellesley Hills, MA 02181. Telephone (617) 237-2100.

Inforex, Inc., 21 North Avenue, Burlington, MA 18103. Telephone (617) 272-6470.

Informer, Inc., 8332 Osage Avenue, Los Angeles, CA 90045. Telephone (213) 649-2030.

Infoton, Inc., Second Avenue, Burlington, MA 01803. Telephone (617) 272-6660.

Intelligent Systems Corporation, 5965 Peachtree Corners East, Norcross, GA 30071. Telephone (404) 449-5961.

International Business Machines Corporation (IBM), Data Processing Division, 1133 Westchester Avenue, White Plains, NY 10604. Telephone (914) 696-1900.

International Business Machines Corporation (IBM), General Systems Division, 875 Johnson Ferry Road, N.E., Atlanta, GA 30342. Telephone (404) 256-7000.

► International Computers, Inc., Turnpike Plaza, 197 Highway 18, East Brunswick, NJ 08816. Telephone (201) 246-3400.

Intertec Data Systems Corporation, 2300 Broad River Road, Columbia, SC 29210. Telephone (803) 798-9100.

Jacquard Systems, 1639 11th Street, Santa Monica, CA 90404. Telephone (213) 450-6784.

Kustom Electronics, Inc., Data Communications Division, 1010 West Chestnut, Chanute, KS 66720. Telephone (316) 431-2700.

Lear Siegler, Inc., Data Products Division, 714 North Brookhurst Street, Anaheim, CA 92803. Telephone (714) 774-1010.

Megadata Computer and Communications Corporation, 35 Orville Drive, Bohemia, NY 11716. Telephone (516) 589-6800.

Memorex Corporation, Communications Group, 18922 Forge Drive, Cupertino, CA 95014. Telephone (408) 987-3412.

Micro-Term, Incorporated, 1314 Hanley Industrial Court, St. Louis, MO 63144. Telephone (314) 968-8151.

Mohawk Data Sciences Corporation, 1599 Littleton Road, Parsippany, NJ 07054. Telephone (201) 540-9080.

NCR Corporation, EDP Products, Building 26, 3rd Floor, Main & K Streets, Dayton, OH 45479. Telephone (513) 449-6620.

Olivetti Corporation of America, 500 Park Avenue, New York, NY 10022. Telephone (212) 371-5500.

Omron Systems, Inc., 432 Toyama Drive, Sunnyvale, CA 94086. Telephone (408) 734-8400.

Ontel Corporation, 250 Crossway Park Drive, Woodbury, NY 11797. Telephone (516) 364-2121.

Paradyne Corporation, 8550 Ulmerton Road, Largo, FL 33541. Telephone (813) 536-4771.

Perkin-Elmer Data Systems, Terminals Division, Route 10 and Emery Avenue, Randolph, NJ 07801. Telephone (201) 366-5550.

Perry Electronics, 2424 Atlantic Avenue, Raleigh, NC 27604. Telephone (919) 821-3700.

Phone 1, P.O. Box 1522, Rockford, IL 61110. Telephone (815) 962-8927.

Plantronics, Inc., 345 Encinal St., Santa Cruz, CA 95060. Telephone (408) 426-5858.

Quotron Systems, Inc., 5454 Beethoven Street, Los Angeles, CA 90066. Telephone (213) 398-2761.

Racal-Milgo, Incorporated, 8600 N.W. 41st Street, Miami, FL 33166. Telephone (305) 592-8600.

Randal Data Systems, Inc., 365 Maple Avenue, Torrance, CA 90503. Telephone (213) 320-8550.

Raytheon Data Systems Company, Division of Raytheon Company, 1415 Boston-Providence Turnpike, Norwood, MA 02062. Telephone (617) 762-6700.

SLM, Incorporated, 2366 Walsh Avenue, Santa Clara, CA 95050. Telephone (408) 727-1030.

Soroc Technology, Incorporated, 165 Freedom Avenue, Anaheim, CA 92801. Telephone (714) 992-2860.

Sycor, Inc., 100 Phoenix Drive, Ann Arbor, MI 48104. Telephone (313) 995-1121.

Systematics General Corporation, National Scientific Laboratories Division, 2922 Telestar Court, Falls Church, VA 22042. Telephone (703) 698-8500.

Tano Corporation, 4301 Poche Court West, New Orleans, LA 70129. Telephone (504) 254-3500.

Taumark, Incorporated, 6621 Century Avenue, Middleton, WI 53562. Telephone (608) 831-9291.

TEC, Inc., 2727 N. Fairview Avenue, Tucson, AZ 85705. Telephone (602) 792-2230.

Tektronix, Inc., PO Box 500, Beaverton, OR 97077. Telephone (503) 644-0161.

Teleram Communications Corporation, 2 Corporate Park Drive, White Plains, NY 10604. Telephone (914) 694-9270.

Teleray, Inc., P.O. Box 24064, Minneapolis, MN 55424. Telephone (612) 941-3300.

Teletype Corporation, 5555 Touhy Avenue, Skokie, IL 60017. Telephone (312) 982-2000.

Telex Computer Products, Inc., 6422 East 41st St., Tulsa OK 74135. Telephone (918) 627-1111.

Termiflex Corporation, 17 Airport Road, Nashua, NH 03060. Telephone (603) 889-3883.

Terminal Data Corporation of Maryland, 11878 Coakley Circle, Rockville, MD 20852. Telephone (301) 881-7655.

Texas Instruments, Inc., Computer Systems Division, P.O. Box 2909, Mail Station 2222, Austin, TX 78769. Telephone (512) 250-7364.

Trivex, Inc., Information Systems Division, 3180 Red Hill Avenue, Costa Mesa, CA 92626. Telephone (714) 546-7781.

Univac Division, Sperry Rand Corporation, PO Box 500, Blue Bell, PA 19424. Telephone (215) 542-4011.

Wang Laboratories, Inc., One Industrial Avenue, Lowell, MA 01851. Telephone (617) 851-4111.

Western Union Data Services Company, 70 McKee Drive, P.O. Box 611, Mahwah, NJ 07430. Telephone (201) 529-1170.

Westinghouse Canada, Ltd., Box 5009, 777 Walker's Lane, Burlington, Ontario, Canada L7R 4B3. Telephone (416) 528-8811.

Wordstream, Inc., (formerly Genesis One), a subsidiary of Management Assistance, Inc. (MAI), 300 East 44th Street, New York, NY 10017. Telephone (212) 557-3500.

Zentec Corporation, 2400 Walsh Avenue, Santa Clara, CA 95050. Telephone (408) 246-7662.□

| SUPPLIER AND MODEL | Alanthus 203/1 | Alanthus 204/1 | Alanthus V-100 | Anderson Jacobson AJ 510 | Ann Arbor Terminals Model 400E |
|--|--|--|--|---|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | firmware | Stand-alone 1 No No Std. Opt. Yes, via user-defined firmware | Stand-alone 1 No No Std. No Yes | Stand-alone 1 No No No Std. No No | Stand-alone 1 No No Std. No No |
| Self diagnostics DISPLAY PARAMETERS | No | No | Yes | Std. 1920 | No |
| Display positions, chars/display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 1920 24 x 80 12-in. diag. 128 7 x 11 dot matrix No No No No | 1920 24 x 80 12-in. diag. 128 7 x 11 dot matrix No No No Std. | 1920 24 x 80, 14 x 132 12-in. diag. 128 See comments No Yes Yes Std. | 1920 24 x 80 15-in. diag. 128 ASCII 7 x 10 dot matrix No Std. Std. Std. | 480 to 1920 24 x 80 std.; 12 x 40 24 x 40 opt. 8 x 10; 15-in. diag. 64 std.; 95 opt. 7 x 7 dot matrix No Std. Std. Char. std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Erase | Up std. Up to 2 pages opt. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Up std. Up to 8 pages opt. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Up std. No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Up std. No U, D, L, R, H, Rt. Std. Both std. Std. Std. Std. Std. Std. Std. Std. S | Std. No U, D, L, R, H, Rt. Std. Add. std.; read opt. No No Opt. No No Screen std. |
| Character repeat | Std. | Std. | Std. | std. Std. | Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter | Data entry |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII No Yes Std. | 128 ASCII Std. Yes Std. | 128 ASCII Std. Yes Std. | 128 ASCII; APL opt. No No Std. | 128 ASCII Std. Up to 36 opt. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Opt. Opt. Opt. Audible alarm std. | Opt. Opt. Opt. Audible alarm std. | Opt. Opt. Opt. Audible alarm std. | Opt. Opt. Opt. — | No No No — |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half/full-duplex Asynchronous ASCII—RS-232C ASCII 110 to 19,200 Char., block Opt. Std. No RS-232C, current loop No | Half/full-duplex Async. std./sync. opt. ASCII—RS-232C ASCII 110 to 19,200 Char., block Opt. Std. No RS-232C, current loop No | Full-duplex Asynchronous ASCII—RS-232C ASCII 110 to 19,200 Char. only No Std. No RS-232C std., current loop opt. No | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char., line, page No No No RS-232C | Half/full-duplex std. Asynchronous —SCII Up to 9600 Char. only No No No RS-232 std.; 20 mA opt. No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 70 65 — 1,375 — 2/79 — Alanthus | 90 86 — 1,775 — 2/79 —Alanthus | 85 81 — 1,575 — 1,575 — Alanthus Display symbols include standard 7 x 9 dot matrix and double-width/double/height characters | 89-95 81-91 — 1,995-2,195 — 11/78 — Anderson Jacobson 40-char. graphics set std. | 1,200 12/77 2000 Ann Arbor |
| | | | | | |

| SUPPLIER AND MODEL | Ann Arbor Terminals 400E COMPAT | Ann Arbor Terminals 4080 COMPAT | Ann Arbor Terminals VT52 COMPAT | Ann Arbor Terminals ADM3A COMPAT | Applied Digital Data Systems (ADDS) Consul 520 |
|---|--|---|---|---|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. Older Ann Arbor units No | Stand-alone 1 No No Std. Ann Arbor K4080D No | Stand-alone 1 No No Std. DEC VT-52 No | Stand-alone 1 No No Std. Lear Siegler ADM-3A | Stand-alone 1 No No Std. No No |
| Self diagnostics | No | No | No | No | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 256 to 1920 8 x 32 to 24 x 80 | 3200 40 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 15-inch diag. 64 std.; 95 opt. 7 x 7 dot matrix No Std. Std. Char. std. | 15-inch diag. 95 7 x 7 dot matrix No Std. Std. Char. std. | 15-inch diag. 95 7 x 7 dot matrix No No No No | 15-inch diag. 95 7 x 7 dot matrix No No No No | 8 x 10-inch diag. 64 5 x 7 dot matrix No Jumper-selectable No No |
| Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std. No U, D, L, R, H, Rt. Std. Std. add. only No Opt. No Soroen std. | Std. No U, D, L, R, H, Rt. Std. Std. add. only No Std. No No Std. No Screen std. | Std. No U, D, L, R, H, Rt. Std. Std. std. No No No Std. No Std. No Std. No Std. No | Std. No U, D, L, R, H, Rt. No Std. add. only No No No No No No Screen std. | Up std. No L, R, U, D, H Std. Std. address only No No No No No Char., screen std. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | Teletype | Teletype | Typewriter | Teletype | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII Std. Up to 36 opt. Std. | 128 ASCII Std. Up to 36 opt. Std. | 128 ASCII Std. Up to 28 opt. Std. | 128 ASCII Std. Up to 36 opt. Std. | ASCII Opt. No No |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No No | No No No — | No No No — | No No No — | No No No Audible alarm std. composite video |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half/full-duplex std. Asynchronous — ASCII 110 to 9600 Char. only No No No RS-232 std.; 20 mA opt. No | Half/full-duplex std. Asynchronous — ASCII 110 to 9600 Char. only No No No RS-232 std.; 20 mA opt. No | Half/full-duplex std. Asynchronous — ASCII 310 to 9600 Char. only No No RS-232 std.; 20 mA opt. No No | Half/full-duplex std. Asynchronous — ASCII 110 to 9600 Char. only No No RS-232 std.; 20 mA opt. No No | Half/full-duplex Asynchronous ASCII Up to 9600 Char. only No No RS-232C, CCITT V.24, 20 mA No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | | 1,595 2/79 Ann Arbor | 1,400 11/78 100 Ann Arbor | 1,400 11/78 50 Ann Arbor | |
| · | 32, and 8 x 32 | | | | |

| SUPPLIER AND MODEL | Applied Digital Data Sys. (ADDS) Consul 580 & MRD 380 | Applied Digital Data Systems (ADDS) MRD 460 | Applied Digital Data Systems (ADDS) Consul 920 | Applied Digital Data Sys. (ADDS) Consul 980 & MRD 980 | Applied Digital Data Systems (ADDS) Consul 980A |
|---|--|---|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM competibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No No | Stand-alone 1 No 3270/3275 No No No |
| Self diagnostics | No | No | No | No | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8 x 10; 12" diag. 64 5 x 7 dot matrix No Jumper-selectable No | 9/25-inch diag. 64 5 x 7 dot matrix 8 colors std. Std. 2 std. Both std. | 8 x 10; 12" diag. 96 5 x 7 dot matrix No Std.; selectable 2 std. Both std., 2 speeds | 8 x 10; 12" diag. 96 5 x 7 dot matrix No Std.; selectable 2 std. Both std.; 2 speeds | 8 x 10; 12" diag. 96 5 x 7 dot matrix No Std.; selectable 2 std. Both std., 2 speeds |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std. No L, R, U, D, H Std. Std. address. only No No No Std. No Char., screen std. | No No U, D, L, R, H Opt. Both std. Std. No Std. No No No Char., line, screen std. | Up std. No L, R, U, D, H Std. Std. Std. Std. Std. No No No Char., line, screen | Up std. No L, R, U, D, H Std. Both std. Std. Std. Std. Std. Std. Std. Std. S | Up std. No L, R, U, D, H Std. Both std. Std. Std. Std. Std. Std. Std. Std. S |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII Opt. 6 opt. Std. | ASCII Std. No Std. | ASCII Opt. 11 opt. Std. | ASCII Opt. 11 opt. Std. | ASCII Opt. 11 opt. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | RS-232 interface RS-232 interface Non-impact/impact Audible alarm std., composite video | RS-232 interface RS-232 interface No None | No No No Audible alarm std., composite video | RS-232 interface RS-232 interface Impact, non-impact Audible alarm std., composite video | RS-232 interface RS-232 interface Impact, non-impact Audible alarm std., composite video |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Asynchronous ASCII ASCII Up to 9600 Char. only No No No RS-232C, 20 mA | Half/full-duplex Asynchronous ASCII ASCII Up to 1500 cps Char. only No No No No RS-232C, CCITT V.24, 20 mA TTL | Half/full-duplex Asynchronous ASCII ASCII Up to 9600 Char./block No No No RS-232C, 20 mA | Half/full-duplex Asynchronous ASCII ASCII Up to 9600 Char./block/line No No RS-232C, 20 mA | Half duplex Async./sync. ASCII/BSC ASCII Up to 9600 Block/line Std. No No RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 1,795 (Consul 580) '73 (580); '74 (380) 25,000/1000 TRW/GE | | | | |
| COMMENTS | Also available from NCR as Model 796-101; MRD 380 is rack- mount controller priced at \$1,195 | | | MRD 980 is rack- mount controller priced at \$1,995; also available from NCR as Model 796-401 | Available from NCR as Model 796-501 |

| SUPPLIER AND MODEL | Applied Digital Data Systems (ADDS) Consul 980B | Applied Digital Data Systems (ADDS) Envoy 620 | Applied Digital Data Systems (ADDS) Regent 100 | Applied Digital Data Systems (ADDS) Regent 200 | Applied Dynamics International Series 60 |
|---|--|---|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No No Burroughs TD 800 No | Stand-alone 1 Yes No Std. No No | Stand-alone No No No Std. No No | Stand-alone No No No Std. No No | Either 10 Yes Opt. Std. Several opt. User-defined firmware |
| Self diagnostics | No | No | Std. | Std. | Opt. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line* | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 256 to 2000 8 x 32, 16 x 40, 20 > 50, 24 x 80, 25 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8 x 10; 12" diag. 96 5 x 7 dot matrix No Std. 2 std. Both std., 2 speeds | 2 x 3; 5" diag. 64 5 x 7 dot matrix No No No No | 12-inch diag. 128 8 x 8 No Std. 2 std. Std. | 12-inch diag. 128 8 x 8 No Std. 2 std. Std. | 15-in. diag. 64 std., 128 opt. 5 x 7 std., 7 x 9 opt. No Std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Up std. No L, R, U, D, H Std. Both std. Std. Std. Std. Std. Std. Std. Std. S | Up std. No U, D, L, R, H Std. Std. addr. only No No No No No No No No Char., screen std. | Up std. No Std. Std. Both std. No No No Page, line, screen std. | Up std. No Std. — Both std. Std. Std. Opt. Opt. Std. | Std., switch-select. Yes, up to 32 pgs. U, D, L, R, H, Rt. Std. Both std. Opt. Opt. Opt. Opt. Opt. Opt. Std. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter | Per customer specs. |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII Opt. 11 opt. Std. | ASCII No No No | 128 ASCII Opt. 8/16 opt. Std. | 128 ASCII Opt. 8/16 std. Std. | Any Yes Up to 48 opt. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | RS-232 interface RS-232 interface Impact, non-impact Audible alarm std., composite video | RS-232 interface RS-232 interface Impact, non-impact Audible alarm std. | RS-232C RS-232C RS-232C — | RS-232C RS-232C RS-232C — | No No No No |
| | Half-duplex Async./sync. ASCII/BSC ASCII Up to 9600 Block/line Std. No No RS-232C | Half/full-duplex Asynchronous ASCII ASCII Up to 9600 Char. only No No No RS-232C, CCITT V.24, 20 mA | Half/full-duplex Asynchronous ASCII ASCII 75 to 9600 Char. No No No RS-232C, 20 mA | Half/full-duplex Asynchronous ASCII ASCII 75 to 9600 Char./line/block No No No RS-232C, 20 mA | Half/full-duplex Async. Any ASCII std. 55 to 19,200 Char., line, block Opt. No No RS-232 std.; 20/60 mA, TTL opt. |
| | No | Std. | No | No | No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 132 122 2,700 2/77 700 TRW/GE | | 1,325-1,450 8/77 15,000 | | 1,520 720 9/78 Over 700 ADI |
| COMMENTS | | | Features include terminal status line, limited graphics, and terminal bypass printing | Features include terminal status line, limited graphics, and terminal bypass printing | All units utilize the same hardware; firmware controlling 2 microprocessors customizes the unit to customer specifications without recurring engineering charges |

| SUPPLIER AND MODEL | Beehive International B 550 | Beehive International Micro Bee | Beehive International Micro Bee 1A | Beehive International Micro Bee 1S | Beehive International Micro Bee 2 |
|--|--|---|---|---|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No Yes | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Stand-alone 1 No No See comments See comments Yes, via user-defined firmware | Stand-alone 1 No No Std. No No |
| Self diagnostics | Std. | Std. | Std. | Std. | Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 2000 25 x 80 | 1920 24 x 80 plus 25th status line | 1920 24 x 80 | 1920 24 x 80 plus 25th status line | 1920 24 x 80 plus 25th status line |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6.5 x 8.4/7 x 9 128/256 ASCII 7 x 8 dot matrix No Std. No Both std. | 8.5 x 6.5, 12" diag. 128 ASCII 5 x 7 dot matrix No (P4) Std. 8-level video Both std. | 8.5 x 6.5; 12" diag. 128 ASCII 5 x 7 dot matrix No (P4) Std. 8-level video Both std. | 8.5 x 6.5; 12" diag. 128 ASCII 5 x 7 dot matrix No (P4) Std. 8-level video Both std. | 8.5 x 6.5; 12" diag. 128 ASCII 5 x 7 dot matrix No (P4) Std. 8-level video Both std. |
| Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return | Std., up & down Std., 2 pages U, D, L, R, H, Rt. | Roll or page std. Single page U, D, L, R, H, Rt. | Roll or page std. Single page U, D, L, R, H, Rt. | Roll or page std. Single page U, D, L, R, H, Rt. | Roll or page std. Single page U, D, L, R, H, Rt. |
| Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Std. Both std. Std. Std. Std. Std. Std. Std. Std. Char., line, screen std. Std. | Blinking block Both std. No No Forward tab No Screen, end-of-line, end-of-page Std. | Blinking block Both std. No No Forward tab No No Screen, end-of-line, end-of-page Std. | Blinking block Both std. No No Forward tab No No Screen, end-of-line, end-of-page Std. | Blinking block Both std. Std. Std. Std. Forward/back std. Both std. Both std. Line, screen, field, end-of-screen Std. |
| KEYBOARD PARAMETERS | | | | | T |
| Style Character/code set Detachability Program function keys Numeric keypad | Typewriter ASCII Std. 8 std. Std. | Typewriter 128 ASCII No No Std. | Typewriter 128 ASCII No 12 user-defined std. Std. | Typewriter 128 ASCII No 12 user-defined std. Std. | Typewriter 128 ASCII No 12 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Audible alarm std. | No No No No | No No No Std. bidirectional RS-232C aux. port | No No No Std. bidirectional RS-232C aux. port | No No No Std. bidirectional RS-232C aux. port |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem | Half/full-duplex Asynchronous User specified ASCII Up to 19,200 Char./block No No No RS-232C | Half/full-duplex Asynchronous — ASCII 110 to 19,200 Character No No No RS-232C, 20 mA std. | Asynchronous ASCII 110 to 19,200 Character No No | Asynchronous ASCII 110 to 19,200 Character No | Half/full-duplex Asynchronous ASCII ASCII 110 to 19,200 Char., line, block, field No No No RS-232C, 20 mA |
| Integral acoustic coupler | No No | No No | No | No | No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. | Purchase only — — — | Purchase only | Purchase only — — — | Purchase only — — | Purchase only — — — — |
| Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 2,930 (base) | 995 | 1,395 | 1,345 8/78 Beehive, Western Union All std. features of Micro Bee 1A plus opt. emulation pkgs. | 1,695 10/78 Beehive, Western Union Fully buffered com- munications; full editing facilities; line |
| | ROM or PROM 8080A micro- processor | 11-char. line draw- ing set; 16 non-dis- playable video attri- bute characters per display line; status and mode visible on 25th display line | aux. port; permits split-speed operation between terminal and aux. device or CPU and aux. device | for DEC VT52, Data General Dasher, ADDS Regent 100, Microdata Prism; also available with- | drawing forms mode; capability to time- share aux. to main port and screen; line lock/memory lock, with invisible address pointer std. |

| SUPPLIER AND MODEL | Braegen B-3 | Bunker Ramo System 90 | Burroughs TD 500 Series | Burroughs TD 730 | Burroughs TD 830 |
|--|---|---|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 32 No 3271/2, 1403, 2501 No No Opt. | Cluster 32 No 3270 BSC/SDLC No BR 2200 Yes | Stand-alone 1 No No No Burroughs No | Stand-alone 1 No 3275 opt. No Burroughs No | Stand-alone 1 No 3275 opt. No Burroughs No |
| Self diagnostics | No | Yes | Yes | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 480/1920 12 x 40, 24 x 80 | 480/960/1920 12 x 40/80; 24 x 80 | 600 15 x 40 | 480 12 x 40 | 2000 80 x 25 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-inch diag. 196 7 x 9 dot matrix No Std. 2 std. Std. | Variable 96 ASCII 5 x 7 dot matrix No No 3 std. Both std. | 5-/9-inch diag. 96 ASCII 7 x 9 dot matrix No Std. No No | 4.7 x 8.4 64 5 x 7 dot matrix No No No Std. | 7.5 x 9 128 5 x 7 dot matrix No Std. Std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Opt. Opt. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. Opt. Char., field, screen | No No U, D, L, R, H, Rt. Opt. Both std. Std. Std. Std. Std. No Std. | - - - - - - - - | Std. Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Std. Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St |
| Character repeat | Std. | Opt. | _ | Std. | Std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Typewriter, data entry, console 256 EBCDIC Std. 10 std., 15 opt. Opt. | Typewriter 96 ASCII/EBCDIC Std. 32 std. Std. | Typewriter or numeric/function 128 ASCII Std. Yes Opt. | Typewriter 128 ASCII Std. Opt. | Typewriter 128 ASCII Std. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Std., single Impact Alarm, disk, line printer, card reader | No Dual Impact Audible alarm std., ID reader opt. | No No No ID card reader, magnetic card reader | Single/dual No Impact Line printers, audible alarm, ID card reader | Single/dual No Impact Line printers, audible alarm, ID card reader |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Synchronous BSC ASCII, EBCDIC 1200 to 19,200 Char./block Std. No No RS-232C | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC Up to 9600 Char./block Std. Opt. Opt. RS-232C | Half-duplex Asynchronous Burroughs ASCII Up to 9600 Block Std. No No RS-232C | Half/full-duplex Async./sync. BSC/Burr. ASCII Up to 38,400 Char./block Std. No No RS-232C | Half/full-duplex Async./sync. BSC/Burr. ASCII Up to 38,400 Char./block Std. No No RS-232C |
| Integral modem Integral acoustic coupler | No No | Opt. No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 60 52 247 227 2,250 9,000 | Contact vendor 1,510 8,260 Bunker Ramo System 90 super- | 84-105 — — 1,975-2,450 — 4/78 — Burroughs | 120-130 — — 2,715-2,865 — 6/77 — Burroughs | 124-154 — — 2,796-2,951 — 8/76 — Burroughs |
| | memory; peripherals include 20-megabyte disk, serial and line printers; 7500-ft. coax std.; multi-drop and multiple IBM interface | sedes the BR 2200 system; IBM 2260/ 2265 compatibility is optional | | | |

| SUPPLIER AND MODEL | Cado System 20/IV | Cado System 40 / IV | Cado System 20 | Cado System 40 | Compugraphic MDT-402 |
|---|---|---|---|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Cluster 4 No IBM2770/2780/3780 Std. No User-created pgms. | Cluster 4 No IBM2770/2780/3780 Std. No User-created pgms. | Stand-alone 1 No IBM2770/2780/3780 Std. No User-created pgms. | Stand-alone 1 No IBM2770/2780/3780 Std. No User-created pgms. | Stand-alone 1 No IBM 2780-BSC Std. No Yes |
| Self diagnostics | Std. | Std. | Std. | Std. | Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1280 16 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-in. diag. 96 ASCII 7 x 9 dot matrix No Std. 2 std. Std. | 5.25 x 11.25 127 ASCII 7 x 9 dot matrix No No 2 std. Std. | 12-in. diag. 96 ASCII 7 x 9 dot matrix No Std. 2 std. Std. | 5.25 x 11.25 127 ASCII 7 x 9 dot matrix No No 2 std. Std. | 4.75 x 6.875 96 ASCII 7 x 9 dot matrix No Std. Std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Up std. No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Up & down std. 3 std. U, D, L, R, H, Rt. No Read opt., add. std. Std. Std. Std. Std. Std. Std. Std. S | Up std. No U, D, L, R, H, Rt. Opt. Std. Std. Std. Std. Std. Std. Std. St | Up & down std. 3 std. U, D, L, R, H, Rt. No Read opt. Std. Std. Std. Std. Std. Std. Std. St | Up & down std. 2 page screen buffer U, D, L, R, H, Rt No Std. Programmable Programmable Std. Std. Std. Std. Char., block, screen |
| Character repeat | Std. | Std. | Std. | Std. | No |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII No 16 std. Std. | 127 ASCII Opt. No Opt. | 128 ASCII No 16 std. Std. | 127 ASCII Opt. No Opt. | 128 ASCII No 18 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Opt. 1 to 3 (dual sided) Impact | Opt. 1 to 3 (dual sided) No Line printer | Opt. 2 to 6 Impact | Opt. 2 to 6 No Line printer | No Single mini-diskette Impact — |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 9600 Char./line/block No Std. No RS-232C | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 9600 Char./line/block No Std. No RS-232C | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 9600 Char./line/block No Std. No RS-232C | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 9600 Char./line/block No Std. No RS-232C, 20 ma dc | Half/full-duplex Async./sync. ASCII/BSC ASCII Up to 9600 Char./line/block No Opt. No RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | | | 13.995 4/78 Cado | | |
| COMMENTS | | Corp. | | | MDT-402 is based on MDT-350 intelli- gent text editing terminal, which began deliveries Oct. 1979; about 3000 are installed |

| SUPPLIER AND MODEL | Computek Series 116 | Computek 200 Series | Computek 216/10 | Computek 216/30 | Computer Optics CO:77/78 |
|---|---|--|--|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Opt. Yes | Either 4 No 3270, 2260/2265 Std. ANPA/Teleram Yes | Stand-alone 1 No 2780, BSC, SDLC Std. Opt. Yes | Cluster 4 No 2780, BSC, SDLC Std. Opt. Yes | Either 32 No 3270 Series No No No |
| Self diagnostics | Std. | Yes | Std. | Std. | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 × 80 | 960/2000 12/25 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920, 2560, 3440 25 × 80, 32 × 80, |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-in. diag. 128 ASCII 7 x 9 dot matrix No Std. 2 std. Char., field | 12/15-inch diag. 128 ASCII 14 x 20 dot matrix No Std. 2 std. Char. std.; field opt. | 12-inch diag. 128/256 ASCII 7 x 9 dot matrix No Std. 2 std. Char., field | 12/15-inch diag. 128/256 7 x 9 dot matrix No Std. 2 std. Char., field | 43 x 80 15-in. diag. 96 7 x 9 dot matrix No No 2 std. No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking | Up, down via prog. More than 3 U, D, L, R, H Std. | Std. Std. U, D, L, R, H, Rt. Std. | Up, down via prog. More than 3 U, D, L, R, H Std. | Up, down via prog. More than 3 U, D, L, R, H Std. | No No U, D, L, R, H, Rt. Opt. |
| Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Via program Via program Via program Fwd. std. via prog. Via program Via program Via program | Std. Std. Std. Std. Std. Std. Char., screen, line opt. | Both std. Via program Via program Fwd. std. via prog. Via program Via program Std. | Both std. Via program Via program Fwd. std. via prog. Via program Via program Std. | No Std. Std. Std. Std. Char., field, screen std. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | Typewriter, others | Typewriter, others | Typewriter, others | Typewriter, others | Typewriter, data entry, other |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII Std. 40 Std. | 128 ASCII Std. Up to 32 Std. | 128 ASCII Std. 40 Std. | 128 ASCII Std. 40 Std. | 128 EBCDIC/ASCI Std. Up to 24 std. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No 1-4 mini floppies No Audible alarm | Single/dual 1-6 drives Impact Card readers, line printers, audible alarm | No 1-4 drives Impact Line printer, audible alarm, 10-megabyte disk | No 1-4 drives Impact 10-megabyte disk, audible alarm | No 3274 type only Impact Line printer, light pen, etc. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async. None ASCII 75 to 9600 Char./block Opt. No RS-232C | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 19,200 Char./block Std. Opt. No RS-232C | Half/full-duplex Async./sync. BSC/SDLC ASCII 110 to 19,200 Char./block Opt. No RS-232C | Half/full-duplex Async./sync. BSC/SDLC ASCII 110 to 19,200 Char./block Std. Opt. No RS-232C | Half-duplex Sync. BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block Std. No No RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | | | 6/78 200 Computek | 6/77 75 Computek, G.A. | 62 58 120-217 100-170 1,880-2,250 4,000-7,000 1st qtr. 1974 5000 Computer Optics |
| COMMENTS | Contact vendor for pricing; pricing based upon OEM quantity | Contact vendor for pricing | Contact vendor for pricing; pricing based upon OEM quantity | Contact vendor for pricing; pricing based upon OEM quantity | , |
| | | | | | |

| SUPPLIER AND MODEL | Computer Peripherals COPS Family | Computer Peripheral Services Corp. Model T-42 | Conrac 480 Series | Control Data Model 714 | Control Data Model 751 |
|---|---|--|--|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster | Stand-alone | Either | Stand-alone | Cluster | Stand-alone |
| Maximum displays/controller Portable case IBM compatibility | 1 No No Std. | 32 No 3270 BSC/SDLC opt. | 1 No No Std. | 15 No No No | 1 No No Std. |
| Teletype compatibility Other compatibility User programmable | See comments No | Opt. Omron, Hazel. 2000 Via user-defined param./firmware | See comments Yes | No No | No No |
| Self diagnostics | No | Std. | Opt. | No | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 plus 25th status line | 1920 24 x 80 | 2000 25 x 80 | 640/1280 8/16 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color | 12-in. diag. 96/128 5 x 7/7 x 9 No | 12-in. diag. 128 ASCII 7 x 9 dot matrix No | 6.5 x 8.5 128 5 x 9 dot matrix No | 8 x 10 64; 96 opt. 5 x 9 dot matrix No | 12-inch diag. 128 ASCII 7 x 9 dot matrix No |
| Reverse video Programmable brightness levels Character and/or field blinking | Std. No Both std. (COPS 20 only) | Std. 2 std. Field std. | No 2 std. Std. | Yes No No | No 2 std. Both std. |
| Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return | Up std. Std. (COPS 20 only) U, D, L, R, H, Rt. | Up, down std. 2 std., 8 opt. U, D, L, R, H, Rt., New Line | Std. Std. U, D, L, R, H, Rt. | Std. No U, D, L, R, H, Rt. | Up std. Opt. U, D, L, R, H, Rt. |
| Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete | Std. Both std. Std. (COPS 20 only) Std. (COPS 20 only) Std.; fwd. & backward Std. (COPS 20 only) | Std. | Std. Std. Std. Std. Std. Std. | Std. No Opt. Opt. Std. Opt. | Std. Std. Std. Std. Std. Std. |
| Line insert/delete Erase | Std. (COPS 20 only) Field, line, screen std. | Std. Line, screen std. | Std. Char., line, screen std. Std. | Opt. Char., screen std., line opt. Std. | Std. Char., line, screen std. |
| Character repeat KEYBOARD PARAMETERS | Std. | Std. | Sta. | Std. | Std. |
| Style | Typewriter | Typewriter std., others opt. | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII Std. 12 opt. Opt. | 128 ASCII Std. Up to 32 opt. Std. | ASCII No Up to 32 Opt. | ASCII No 6 Std. | 64/96 ASCII Std. No Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Impact Bar code reader and printer controller for terminal sharing opt. | Single drive Micro-floppy Impact, thermal Parallel printer, bell, composite video | No Opt. Opt. Audible alarm std.; parallel printer | No No Impact/non-impact Audible alarm std. | Single/dual drive No Impact/non-impact Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Asynchronous ASCII ASCII 110 to 19,200 Char./block Std. (COPS 20 only) No No RS-232C; 20 mA | Half/full-duplex Async./sync. ASCII, SDLC ASCII, SDLC Opt. 110 to 9600 Char., line, block Opt. Opt. No RS-232C std., 20 mA opt. No | Half/full-duplex Async./sync. ASCII; others opt. So to 9600 Char./block/line Opt. No RS-232C, current loop No No | Half/full-duplex Synchronous ASCII/CDC BSC ASCII 2000 to 4800 Block Std. Std. No RS-232C, current loop No | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./line/page Opt. Opt. No RS-232C No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 39 to 113 37 to 97 — 750-1,395 — 10/77 Over 1000 Third party | | | 112-259 | 100-134 3,150-3,765 9/76 Over 500 CDC |
| COMMENTS | for ADDS, DEC, Hazel- tine, and Lear Siegler terminals; models are COPS 10 (Teletype- | Complete RJE | Compatible with Burroughs TD700/ 800 & Univac U100/ 200; up to 49K bytes of RAM and PROM | | |

| SUPPLIER AND MODEL | Control Data | Control Data | Control Data | Control Data | Control Data |
|--|--|---|---|---|--|
| | Model 752 | Model 756 | Model 92451 | Model 92452 | Model 92456 |
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone | Stand-alone | Stand-alone | Stand-alone | Stand-alone |
| | 1 | 1 | 1 | 1 | 1 |
| | No | No | No | No | No |
| | No | No | No | No | No |
| | Std. | Std. | Std. | Std. | Std. |
| | No | No | No | No | No |
| Self diagnostics | Yes | Std. | No | No | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 | 1920 | 960; 1920 opt. | 1920 | 1920 |
| | 24 x 80 | 24 × 80 | 12 x 80; 24 x 80 opt. | 12 x 80; 24 x 80 opt. | 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-inch diag. | 12-in. diag. | 8 x 5.25 | 8 x 5.25 | 8 x 5.25 |
| | 128 ASCII | 128 ASCII | 128 | 128 | 128 ASCII |
| | 7 x 9 dot matrix | 7 x 9 dot matrix | 7 x 9 dot matrix | 7 x 9 dot matrix | 7 x 9 dot matrix |
| | No | No | No | No | No |
| | No | No | No | No | No |
| | 2 std. | 2 std. | 2 opt. | 2 opt. | 2 std. |
| | Both std. | Both std. | Both opt. | Both opt. | Both std. |
| Roll | Up std. | Up std. | Up std. | No | Up std. |
| Paging | No | No | 2 pg. opt. | No | No |
| Cursor positioning, Up, Down, Left, | U, D, L, R, H, Rt. | U, D, L, R, H, Rt. | U, D, L, R, H | U, D, L, R, H | U, D, L, R, H, Rt. |
| Right, Home, Return | Std. | Std. | Std. | Std. | Std. |
| Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Std., addr. only No No No No No Char., line, screen std. Std. | Std., addr. only Std. Std. Std. Std. Std. Std. Std. Std. | Std. Opt. Opt. Opt. Opt. Opt. Opt. Char., line, screen std. Std. | Std. addr. only No No No No No Char., line, screen std. Std. | Std., addr. only Opt. Std. Opt. Opt. Opt. Char., line, screen std. Std. |
| KEYBOARD PARAMETERS | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set | 64/96 ASCII | 64/96 ASCII | ASCII | ASCII | 64/96 ASCII |
| Detachability | Std. | Std. | Std. | Std. | Std. |
| Program function keys | No | 12 std., 24 possible | 4 std. | Opt. | 8 std., 16 possible |
| Numeric keypad | Std. | Std. | Std. | Opt. | Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No | No | S-D opt. | No | No |
| | No | No | S-D opt. | No | No |
| | Impact/non-impact | Impact / non-impact | Impact/non-impact | Impact / non-impact | Impact/non-impac |
| | Audible alarm std. | Audible alarm std. | Audible alarm std. | Audible alarm std. | Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char. only No; current loop No No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./block No, current loop No No RS-232C | Half/full-duplex Asynchronous ASCII 110 to 9600 Char./block/line Opt. Opt. No RS-232 B/C, CCITT V.24 | Half/full-duplex Asynchronous ASCII 110 to 9600 Char./block/line No No No RS-232 B/C, CCITT V.24 | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./block No, current loop No No RS-232C, CCITT V.24 |
| Integral modem Integral acoustic coupler | No | No | Opt. | No | No |
| | No | No | No | No | No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 55 1,650-1,750 3/77 Over 500 CDC | 70 2.197 6/78 | 2,000-2,350 10/75 CDC | 1,000-1,500 3/76 CDC | 1,655-1,865 -9/77 CDC |
| COMMENTS | | | 1K-6K RAM, 4K-8K PROM memory | Several versions available | Several versions available |

| SUPPLIER AND MODEL | Couries 270 | Courier 275 | Courier 277 | Courier 7700 | Couries 7750 |
|---|--|---|--|--|--|
| | Courier 270 | Courier 275 | Courier 277 | Courier 7700 | Courier 7750 |
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Cluster 32 No 3270, full line No No No | Stand-alone No IBM 3275 No No | Cluster 32 No IBM 3277 No No | Cluster 32 No No No HIS VIP 7700/7760 No | Either 4 No No No No No No No No No |
| Self diagnostics | Std. | Std. | Std. | Std. | Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 480 to 3440 12 x 40; 12, 24, 32, | 480, 960, 1920 12 x 40; 12, 24, 32, | 480, 1920 12 x 40, 24 x 80 | 960/1920 12 x 24/80 | 960/1920 12 x 24/80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | or 43 x 80 7 x 10 64 std., 96 opt. 7 x 9/12 dot matrix No Opt., cursor only 2 std. Field opt. | or 43 x 80 7 x 10 64 std., 96 opt. 7 x 9 dot matrix No No 2 std. Field opt. | 7 x 10 64 std., 96 opt. 7 x 9 dot matrix No No 2 std. Field opt. | 7 x 10, 15-in. diag. 96 std., 128 opt. 8 x 10 dot matrix No Cursor Std. Both std. | 7 x 10, 15-in. diag. 96 std., 128 opt. 8 x 10 dot matrix No Cursor Std. Both std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | No No U, D, L, R, H, Rt. Opt. Both std. Std. Std. Std. Std. No Char., line, screen std. | No No U, D, L, R, H, Rt. Opt. Both std. Std. Std. Std. Std. Std. No Char., line, screen std. | No No U, D, L, R, H, Rt. Opt. Both std. Std. Std. Std. Std. Std. No Char, line, screen std. | No No U, D, L, R, H, Rt. Std. Addressable only Std. Std. Fwd./back tab std. Std. Std. Char., line, screen, variable fields std. | No No U, D, L, R, H, Rt. Std. Addressable only Std. Std. Fwd./back tab std. Std. Std. Char., line, screen, variable fields std. |
| Character repeat | Std. | Std. | Std. | Typamatic keys std. | Typamatic keys std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Typewriter, data entry, APL, console 64 ASCII, 96 EBC Std. 12 std., 24 opt. Opt. | Typewriter, data entry 64 ASCII, 96 EBC Std. 6 std., 12 opt. Opt. | Typewriter, data entry 64 ASCII, 96 EBC Std. 6 std., 12 opt. Opt. | Typewriter, data entry 96 ASCII; 128 opt. Std. Std. Opt. | Typewriter, data entry 96 ASCII; 128 opt. Std. Std. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Single Impact — | No No Impact — | No No No | No Single, dual opt. Impact Mag. badge rdr., line printers, tilt/swivel base, line extenders, etc. | No No Impact Mag. badge rdr., line printers, tilt/swivel base, line extenders, etc. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half-duplex Synchronous BSC, SNA SDLC ASCII, EBCDIC 9600 Block Std. No No RS-232 B/C No | Half-duplex Synchronous BSC ASCII, EBCDIC To 9600 Block Std. No Yes RS-232 B/C | See comments | Half/full-duplex Synchronous HIS VIP 7700/7760 ASCII Up to 9600 Block Std. Opt. No RS-232C, CCITT | Half/full-duplex Synchronous HIS VIP 7700/7760 ASCII Up to 9600 Block Std. Opt. No RS-232C, CCITT |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Contact vendor Contact vendor Contact vendor Contact vendor Contact vendor ———————————————————————————————————— | Contact vendor Contact vendor Contact vendor Contact vendor Contact vendor ———————————————————————————————————— | Contact vendor Contact vendor Contact vendor Contact vendor Contact vendor Contact vendor 1977 — ITT Courier | Contact vendor Contact vendor Contact vendor Contact vendor Contact vendor Contact vendor 1977 — ITT Courier Fully compatible with | Contact vendor Contact vendor Contact vendor Contact vendor Contact vendor Contact vendor 1977 — ITT Courier Fully compatible with |
| COMMENTS | Fully compatible with IBM 3270 Information Display System including 3271/2/4/6/7/8 | | Interfaces to IBM 3271, 3272, and 3790 controllers (or System/3) in same manner as on IBM 3277 | rully compatible with computers that support Honeywell VIP 7700/7760; redundant terminal controller opt.; integral line monitor function; format reveal mode; forms composition mode | rully compatible with computers that support Honeywell VIP 7700/7760; integral line monitor function; format reveal mode; forms composition mode |

| SUPPLIER AND MODEL | Data General Model 6052 | Data General Model 6053 | Data 100 Model 82 | Data 100 Model 85 | DatagraphiX 132A |
|---|---|---|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. No | Cluster 16 No 3270 BSC No No | Cluster 16 No 3270 BSC, HASP No IBM 2780/3780 Yes, via RPG & COBOL | Stand-alone 1 No No Std. No No |
| Self diagnostics | Yes | Yes | Yes | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 3960 30 x 132 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6 x 9 64 5 x 7 dot matrix No No No Both std. | 6 x 9 96 5 x 8 dot matrix No No 2 std. Both std. | 14-inch diag. 96 7 x 9 dot matrix No No 2 std. Both std. | 14-in. diag. 96 7 x 9 dot matrix No No 2 std. Both std. | 8 x 11 96 Charactron No No Yes No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Up std. No U, D, L, R, H, Rt. Std. Std.; address. only No Yes No No No Line, screen std. | Up std. No U, D, L, R, H, Rt. Std. Std.; address only No Yes No No No Line, screen std. | No No U, D, L, R, H, Rt. Std. Std. address only Std. Std. Std. Std. Std. Std. Std. Std. | No No U, D, L, R, H, Rt. Std. address only Std. Std. Std. Std. Std. Std. Std. Std. | Yes No U, D, L, R, H, Rt. Std. Yes No Yes Std. Std. Std. Std. Std. Char., line, screen std. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Teletype 64 ASCII Std. 8 std. Std. | Typewriter 96 ASCII Std. 11 std. Std. | Typewriter, data entry, keypunch \$6 ASCII Std. Up to 12 std. Opt. | Typewriter, data entry, keypunch 96 ASCII Std. Up to 12 std. Opt. | Typewriter 128 ASCII Std. No No |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Yes — | No No Yes — | No Single drive Impact Aud. alarm, line printer, switchable displays bwtn. Models 74, 78, 82, & 85 | No No Impact Aud. alarm, line printers, switchable displays bwtn. Models 74, 78, 82, 85 | No No RS-232C Audible alarm |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Full-duplex Asynchronous ASCII ASCII 110-19,200 Char. only No No No RS-232C, 20 mA | Full-duplex Asynchronous ASCII ASCII 110-19,200 Char. only No No No RS-232C, 20 mA | Half/full-duplex Synchronous BSC EBCDIC Up to 9600 Block only Std. Yes No RS-232C | Half/full-duplex Synchronous BSC EBCDIC Up to 9600 Block only Std. Yes No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110-9600 Char., line, block No No No RS-232C, 20 mA |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | Purchase only 1,990 400 10/76 Data General | Purchase only 2,290 400 10/76 Data General | 71 w/keyboard 68 w/keyboard 320 (see comments) 300 (see comments) 2,352 w/keyboard 10,500 (see comm.) 2/77 Over 1000 Data 100 | 71 w/keyboard 68 w/keyboard 772 (see comments) 738 (see comments) 2,352 w/keyboard 28,476 (see comm.) 9/78 — Data 100 | 226-265 Conditional — — 3,950-4,450 — 11/77 — DatagraphiX |
| COMMENTS | Monitor tilts and swivels | Monitor tilts and swivels | Available as a single- or dual-processor config. for on- and off-line data entry and batch processing; controller price in- cludes first display station, integrated diskette, and 24K bytes of memory | Avail. as an attached processor to another Data 100 system; communications is performed in attached processor; contr. price includes first display station, 10MB disk storage, & 128K-byte main memory | Memory buffer of 60 or 120 lines |

| SUPPLIER AND MODEL | DatagraphiX 132B | Datamedia Series 80 | Datamedia Elite 1520 APL/ASCII Portable | Datamedia Elite 1521A | Datamedia Elite 3000A Series |
|---|--|---|--|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. No | Stand-alone 1 Std.; 40 lb. No Std. No No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. See comments No |
| Self diagnostics | _ | Std. | Std. | Std. | Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 3960 30 x 132 | 2000 25 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8 x 11 96 Charactron No No Yes No | 6 x 9 128 ASCII 5 x 9 dot matrix No No 3 std. Char., field std. | 4 x 7 128 ASCII 5 x 9 dot matrix No No No No | 6 x 9 128 ASCII 5 x 9 dot matrix No No 2 opt. No | 6 x 9 128 ASCII 5 x 9 dot matrix No Std. 3 std. Char., field std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Yes Yes U, D, L, R, H, Rt. Std. Yes Yes Std. Std. Std. Std. Std. Std. | Up, down std. 2 pages opt. U, D, L, R, H, Rt., New line std. Std. Both std. Std. Std. Fwd./back std. Std. Std. Std. Char., line, screen | Up std. No U, D, L, R, H, Rt., New line std. Std. Std. address. only No No Forward std. No No Char., line, page | Up std. No U, D, L, R, H, Rt., New line std. Std. Std. address only No No Forward std. No No Char., line, screen std. | Up, down std. No U, D, L, R, H, Rt., New line std. Std. Both std. Std. Std. Std. Fwd./back std. Std. Std. Std. Char., line, screen std. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII Std. 12 std. Std. | 128 ASCII Std. 10 std. + 10 opt. Std. | 128 ASCII + 32 APL Std. No No | 128 ASCII Std. Opt. Opt. | 128 ASCII Std. 10 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No RS-232C Audible alarm | RS-232C, parallel I/F RS-232C, parallel I/F RS-232C, parallel I/F Audible alarm std.; printer sharing opt. | RS-232C interface RS-232C interface RS-232C interface Audible alarm, com- posite video out std. | RS-232C interface RS-232C interface RS-232C interface Audible alarm, com- posite video out std. | RS-232C interface RS-232C interface RS-232C interface Audible alarm, com- posite video out std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Full-duplex Asynchronous ASCII ASCII 110 to 9600 Char., line, block No No No RS-232C, 20 mA | Half/full-duplex Async. or sync. ASCII ASCII 0 to 19,200 Char., line, block Opt. No No Dual RS-232C/20 mA | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char. only No No No RS-232C, 20 mA | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char. only No No No RS-232C; 20 mA opt | 20 mA opt. |
| Integral modem Integral acoustic coupler | No No | No No | No Opt. | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 255-284 Conditional — 4,450-4,950 — 11/78 — DatagraphiX | Contact vendor Datamedia | 105 2,495-2,795 6/75 Over 1000 Datamedia | 65 1,200-1,250 6/77 Over 2000 Datamedia | 75 — — — 1,595 — 2/78 2000 Datamedia |
| COMMENTS | Memory buffer of 60 or 120 lines | | | | DEC VT-52, Data General Dasher 6053 Datamedia Elite 2500 compatibility available |

| SUPPLIER AND MODEL | Datamedia Elite 3045 APL/ASCII | Datamedia Elite 3100A | Datamedia Elite 4000A | Datapoint 1130 | Datapoint 1150 |
|---|--|--|--|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. DEC VT-100 No | Stand-alone 1 No No Std. No Yes | Either 4 No Opt. Opt. — Yes, several | Either 4 No Yes Yes — Yes, several |
| Self diagnostics | Std. | Std. | No | languages | languages |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1848-3168 24 x 80, 14/24 x 132 | 1920 24 x 80 | 960 12 x 80 | 960 12 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6 x 9 128 ASCII + 32 APL 5 x 9 dot matrix No No 3 std. Std. | 6 x 9 128 ASCII 7 x 9 dot matrix No Std. Opt. Opt. | 6 x 9 128 ASCII 5 x 9 dot matrix No Std. 2 std. Both std. | 3.5 x 7 96 5 x 7 dot matrix No — — | 3.5 x 7 96 5 x 7 dot matrix No — — — |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Up, down std. No U, D, L, R, H, Rt., New Line std. Std. Std. Std. Std. Std. Std. Fwd./back std. Char. insert std. No Char., line, screen std. Std. | Std. No U, D, L, R, H, Rt., New Line std. Std. — Opt. Opt. Std. Opt. Opt. Char., line, screen std. Std. | Std., up & down 2 pages std., 2 opt. U, D, L, R, H, Rt. Std.; non-blink opt. Addressable Std. Std. Opt. Opt. Opt. Chr., line, screen std. Std. | All functions are programmable | All functions are programmable |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII + 32 APL Std. 10 std. Std. | 128 ASCII Std. Std. Std. | 128 ASCII Std. Std. Std. | 128 ASCII No No Std. | 128 ASCII No No Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | RS-232C interface RS-232C interface RS-232C interface Audible alarm, com- posite video std. | RS-232C interface RS-232C interface RS-232C interface Aud. alarm, comp. video std.; limited graphics opt. | RS-232C interface RS-232C interface RS-232C interface RS-232C interface Audible alarm std. | No 1 to 4 drives Impact Matrix, belt, & drum printers & 7-/9-tk. mag. tape drives | No 1 to 4 drives RS-232 Matrix, belt, & drum printers & 7-9-tk. mag. tape drives |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Asynchronous ASCII O to 9600 Char., line, block No No No RS-232C std.; 20 mA opt. | Half/full-duplex Asynchronous ASCII 50 to 9600 Char., line, block No No No No RS-232C; 20 mA opt. | Half/full-duplex Asynchronous ASCII 50 to 9600 Char./line/block Opt. No No RS-232C or 20 mA | Half/full-duplex Sync./Async. ASCII/BSC/SDLC ASCII/EBCDIC Up to 40.8K Char./block Opt. Opt. Opt. RS-232C | Half/full-duplex Async./sync. ASCII/BSC/SDLC ASCII/EBCDIC Up to 40.8K Char./block Opt. Opt. Opt. RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | Opt. No | Opt., 103/202 Opt., 300 bps | Opt., 103/202 Opt., 300 bps |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 85 1,795 2/75 500 Datamedia | Contact vendor Datamedia | Contact vendor 1/77 Datamedia | | |
| COMMENTS | | | | | |
| | | | | | |

| SUPPLIER AND MODEL | Datapoint 1170 | Datapoint 1500 | Datapoint 1800 | Datapoint 3600 & 3610 |
|---|---|--|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 4 No Yes Yes — Yes, several languages | Stand-alone 1 No 3780 Yes Opt. Yes, Data Bus & Dataform | Either 4 No Yes Yes Opt. Yes, see comments | Stand-alone 1 No No No Datashare/Multiform No |
| Self diagnostics | _ | Yes | Yes | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 960 12 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 3.5 x 7 96 5 x 7 dot matrix No | 5.5 x 8.35 128 5 x 7 dot matrix No Std. — — | 5.5 x 8.35 128 5 x 7 dot matrix No Std. | 5 x 8 96 5 x 7 dot matrix No No No No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | All functions are program- mable | All functions are programmable | All functions are program- mable | Up std. No U, D, L, R, H, Rt. Std. Std. address. only No No Std. No No Char. std. |
| Character repeat | | | | No |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII No No Std. | 128 ASCII Opt. 5 std. Std. | 128 ASCII Std. 5 std. Std. | ASCII Opt. No Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No 1 to 4 drives RS-232C interface Matrix, belt, & drum printers & 7-/9-tk. mag. tape drives | No 2 or 4 drives RS-232C interface Freedom printer optional | No 2-8 drives, double dens. RS-232C interface Matrix, belt, drum printers; 7-/9-tk, mag. tape drives; card reader | No No Impact Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. ASCII//BSC/SDLC ASCII//EBCDIC Up to 40.8K Char./block Opt. Opt. Opt. RS-232C | Half/full-duplex Async./sync. ASCII/EBCDIC 50 to 9600 Char./block Opt. Std. Opt. RS-232C | Half/full-duplex Async./sync. ASCII/SDLC/BSC ASCII/EBCDIC 150 to 9600 Char./block Opt. Std. Opt. RS-232C | Full-duplex Asynchronous ASCII ASCII 110 to 9600 Char. only No No No RS-232B/C |
| Integral modem Integral acoustic coupler | Opt.; 103/202 Opt.; 300 bps | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | | Purchase only 5,950 9/77 3000 Datapoint | | 77 70 1,950 12/74 20,000 Datapoint |
| COMMENTS | <i>7</i> + | Price includes dual diskette drives, processor with 4K ROM & 32K RAM, comm. interface, & software | Programming languages include RPG Plus, COBOL, BASIC, DATABUS, DATA- FORM | |

| Testalitation Description Stand-alone | SUPPLIER AND MODEL | Dataview Marquis | Dataview Marquis∕X-Y | Dataview Monarch | Dataview Monarch-52 | Dataview Titan |
|---|---|--|---|--|--|---|
| Self diagnostics | Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility | 1 No No Std. | 1 No No No | 1 No Opt. Std. | 1 No No Std. | 1 No Opt. Opt. |
| Display PARAMETERS Display prairing manufactures x cheex / line 1920 24 x 80 | Úser programmable | No | No | No | No | No |
| 1920 | _ | res | Sta. | Std. | No | Sta. |
| Total displayable symbols Symbol formation Sx | Display positions, chars/display | | | | | |
| Peging Cursor positioning; Up, Down, Left, Right, Mone, Return Rig | Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels | 64 5 x 7 dot matrix No No — | 96 7 x 9 No Std. Std. | 128 7 x 9 No Std. 2 std. | 128 ASCII 5 x 7 dot matrix No No No | 128 7 x 9 No Std. 2 std. |
| Character repeat KEYBOARD PARAMETERS Style Typewriter Typewrite | Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete | No Horiz. bottom line Yes Yes No No No No No No | No U, D, L, R, H, Rt. Std. Addr. std./read. opt. No No Std. forward No No | Opt., 2 pages U. D, L, R, H, Rt. Std. Both std. Opt. Opt. Std.; back opt. Opt. Opt. Opt. Char., line, screen | No U, D, L, R, H, Rt. Std. Std. addr. only No No Std. No No | 2 std.; 30 opt. U, D, L, R, H, Rt. Std. Both std. Std. Std. Std.; back opt. Std. Std. Std. Char., line, screen |
| Style Typewriter Typewrit | Character repeat | Yes | Std. | | Std. | |
| Detachability Program function keys No | | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Cassette tape drive Diskette drive (floppy disk) Diskette drive (floppy disk) Serial printer Other devices TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto aniswer Auto call Temninal interface Integral modem Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Displ | Detachability Program function keys | No No | Opt. No | Opt. 3 opt. | No 3 std. | Opt. 3 std.; others opt. |
| Half/full-duplex Half/full-duplex Asynchronous Asynchronou | Cassette tape drive Diskette drive (floppy disk) Serial printer | No No | RS-232C interface | RS-232C interface | No No | RS-232C interface |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem | Asynchronous ASCII ASCII Up to 9600 Char. No No No RS-232C, 20 & 60 mA current loop No | Asynchronous ASCII ASCII/EBCDIC 75 to 9600 Char. only No No No RS-232C, 20 mA current loop No | Async./sync. ASCII/BSC ASCII/BSC 75 to 19,200 Char./block opt. Opt. No No RS-232C & 20 mA current loop No | Asynchronous ASCII ASCII 75 to 9600 Character No No No RS-232C of 20 mA current loop std. | Async./sync. ASCII/BSC/SDLC ASCII/EBCDIC 75 to 19,200 Char./line/block Std. No No No RS-232C & 20 mA current loop No |
| | PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 805 1/77 | | | | |

| Maximum displays/controller Portable case IBM compatibility Other compatibility Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Character repeat KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices RS-2 Character insert/cline, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral modem Integral modem Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. | 1 No No Stc See Op No Stc Stc Std. Std. Stc | o td. ee comments pt. 0 000 5 x 80 x 11 24 x 7 dot matrix o td. pt. oth std. lp & down std. td. t, D, L, R, H, Rt. td. td. td. td. td. td. td. td. | Stand-alone 1 No No Std. No No No 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. No Both std. Up & down std. Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Stand-alone 1 No No Std. No No No 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. Opt. Both std. Up & down std., 2 std.; 2 opt. U, D, L, R, H, Rt. | Stand-alone 1 No 3270/2260/2265 Std. No Yes Yes 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. Opt. Both std. Up & down std. |
|---|--|---|---|--|--|
| Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Toletype compatibility User programmable Self diagnostics DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Line insert/delete Line insert/delete Erase Character repeat KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices ITANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Autio answer Auto call ITERNISION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Autio answer Auto call ITERNISION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Autio answer Auto call ITERNISION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Autio answer Auto call ITERNISION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Autio answer Auto call ITERNISION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Autional Ternision No. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, | 1 No No Stc See Op No Stc Stc Std. Std. Stc | o td. ee comments pt. o 000 5 x 80 x 11 24 x 7 dot matrix o td. p & down std. td. td. td. td. td. td. td. td. td. | 1 No No No Std. No | 1 No No No Std. No | 1 No No Std. Opt. Both std. |
| Portable case IBM compatibility Teletype compatibility Other compatibility User programmable Self diagnostics DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices ITANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto answer Auto answer Auto answer Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. | /2260/2265 No Str. Sep. Op No | o td. ee comments pt. 0 000 5 x 80 x 11 24 x 7 dot matrix o td. pt. oth std. lp & down std. td. t, D, L, R, H, Rt. td. td. td. td. td. td. td. td. | No Std. No No No No 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. No Both std. Up & down std. Std. U, D, L, R, H, Rt. Std. | No Std. No | 3270/2260/2265 Std. No Yes Yes -2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. Opt. Both std. |
| IBM competibility Teletype compatibility User programmable Self diagnostics DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Line insert/delete Line insert/delete Erase Character repeat KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices ITRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. | /2260/2265 No Str. Sep. Op No | o td. ee comments pt. o 000 5 x 80 x 11 24 x 7 dot matrix o td. ppt. oth std. pp. td. td. t, D, L, R, H, Rt. td. td. td. td. td. td. td. td. td. t | Std. No No 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. No Both std. Up & down std. Std. U, D, L, R, H, Rt. Std. | Std. No No No 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. Opt. Both std. Up & down std., 2 std.; 2 opt. | Std. No Yes 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. Opt. Both std. |
| Other compatibility User programmable Self diagnostics DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Line insert/delete Line insert/delete Erase Character repeat KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices Integral modem Integral modem Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. | Second Property of the Control of th | ee comments pt. 0 000 5 x 80 x 11 24 x 7 dot matrix o td. p & down std. td. t, D, L, R, H, Rt. td. td. td. td. td. td. | No No No 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. No Both std. Up & down std. Std. U, D, L, R, H, Rt. Std. | No No No 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. Opt. Both std. Up & down std., 2 std.; 2 opt. | No Yes Yes 2000 25 x 80 6 x 11 224 5 x 7 dot matrix No Std. Opt. Both std. |
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| Integral modern Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. | | S-232C, current | RS-232C, current | RS-232C | RS-232B/C, |
| Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. | No. | oop lo | loop No | No | current loop No |
| Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. | No | | No | No | No |
| Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. | 15 | 50-170 | Purchase only | 168-178 | 178-208 |
| Controller, 1 year lease, \$/mo. | | 38-156 | | 154-163 | 163-190 |
| Diam's and a second | 1- | - | - | 2 500 2 755 | 3.750-4.450 |
| | $\frac{1}{2}$ | .995-3.500 | 1,795 | 3,500-3,755 | 3,750-4,450 |
| Controller, purchase, \$ | | - | | | |
| Date of first production delivery Display units installed to date 2/78 3000 | | 776 000 | 11/77 500 | 6/76 500 | 7/75 — |
| 3000 | | elta & Sorbus | Delta & Sorbus | Delta & Sorbus | Delta & Sorbus |
| COMMENTS | 40 | lug-to-plug | | Design for text | Memory can be an |
| ROM | 0 & Sorbus De | eplacement for Bur- | | editing | mix of ROM, PRON |
| gram 16K | AQUE A Sorbus tional PROM or lawith user pro- | oughs, Univac, & loneywell displays | | | and RAM up to 20 software available |
| · · · |) 40 1 & Sorbus De tional PROM or 1 with user pro- 1 available up to roi | | | | |
| İ |) 40 1 & Sorbus De tional PROM or 1 with user pro- 1 available up to roi | | | | |
| 1 |) 40 1 & Sorbus De tional PROM or 1 with user pro- 1 available up to roi | | | | İ |

| SUPPLIER AND MODEL | Delta Data 7100 | Delta Data 7300 | Delta Data 7500 | Digi-Log Microterm II | Digi-Log TeleComputer II |
|---|---|---|--|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No Std. | Stand-alone 1 No No Std. No Std. | Either 15 No 3271/3277/3275 Std. No Std. | Stand-alone 1 No 2780 opt. Std. — Yes | Stand-alone 10 Opt.; 22 lbs. No Std. No No |
| Self diagnostics | Std. | Std. | Yes | Yes | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 2240 28 x 80 | 2240 28 x 80 | 2240 28 x 80 | 1920 24 x 80 | 1280/640 16 x 40/80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 15-in. diag. 128 std., 672 opt. 7 x 10 dot matrix No Std. Std. Both std. | 15-in. diag. 128 std., 672 opt. 7 x 10 dot matrix No Std. Std. Both std. | 15-in. diag. 128 std., 672 opt. 7 x 10 dot matrix No Yes Yes Yes | 6 x 9 128 7 x 11 dot matrix No Std. Std. Both std. | Variable 64; 96 opt. 5 x 7 dot matrix No No No Both opt. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return | Up, down std. 3 std.; 15 opt. U, D, L, R, H, Rt. | Up, down std. 3 std.; 15 opt. U, D, L, R, H, Rt. | Yes Up to 15 U, D, L, R, H, Rt. | Std. Programmable U, D, L, R, H, Rt. | Up std. — U, D, L, R, H, Rt. |
| Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Std. Both std. Std. Std. Std. Std. Std. Std. Std. S | Std. Both std. Std. Std. Std. Std. Std. Std. Std. S | Yes Yes Yes Yes Yes Yes Yes Same as 7100 plus word, sentence, para. Std. | Std. Std. Std. Std. Std. Std. Std. Std. | Opt. Opt., addr. only No No No No No Screen std. |
| KEYBOARD PARAMETERS | | | | | |
| Style Character/code set Detachability Program function keys Numeric keypad | Typewriter, data entry ASCII Std. 8 std., up to 20 opt. Std. | Typewriter ASCII Std. 8 std.; up to 20 opt. No | Typewriter, data entry ASCII/EBCDIC Std. Up to 20 Opt. | Typewriter 128 ASCII No 26 std. Std. | Teletype ASCII Yes No No |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | | RS-232C interface Parallel interface Impact/non-imp. opt. Audible alarm std., split screen | RS-232C interface Parallel interface Impact/non-imp. opt. Audible alarm std., split screen | RS-232C interface Single/dual drive Impact/non-impact — | RS-232C interface RS-232C interface RS-232C interface 5-inch portable CRT, audible alarm |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half/full-duplex Async./sync. ASCII ASCII 110 to 19,200 Char., line, block No No RS-232C, Mil-Std- 188, RS-422, RS-423 No | Half/full-duplex Async./sync. ASCII 110 to 19,200 Char., line, block, para No No No RS-232C, Mil-Std- 188, RS-422, RS-423 No | Half/full-duplex Async./sync. ASCII, bisync., sync. ASCII, EBCDIC 110 to 19,200 Char., line, block, para Yes No No RS-232C, Mil-Std- 188, RS-422, RS-423 No | Half/full-duplex Async./sync. Programmable Programmable 50 to 19,200 Char./block Programmable Std. Std. RS-232C | Half/full-duplex Asynchronous ASCII ASCII 75 to 9600 Char. only No No No RS-232C, CCITT, or 20/60 mA dc Opt. |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | Purchase only | Purchase only 4,600 6/78 Delta & Sorbus | Purchase only | 6,930 1/00 Third party | |
| COMMENTS | processor; floppy disk | Extensive text edit features, including justification, word, sentence, & para. copy and move, search; floppy disk operating system and BASIC optionally available | 1K PROM & 16K RAM std. (64K opt.); 16-bit Tl 9600 microproc- essor; soft. avail. for editing, compatibility, & transmission fea- tures; prog. dev. sys. opt.; floppy disk oper- ating sys. and BASIC opt. | Dual Z-80 micro- processors | Over 2500 units de- livered, including Models 33 and 209, now discontinued |

| SUPPLIER AND MODEL | Digital Equipment Model VT-52 | Digital Equipment Model VT-55 | Digital Equipment Model VT-61/t | Digital Equipment DEC station 78 | Digital Equipment Model VT-100 |
|---|--|--|--|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 INO NO Std. NO | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. No Yes | Stand-alone 1 No No Std. No No |
| Self diagnostics | No | No | Yes | Yes (terminal) | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920; 3168 opt. 24 x 80; 24 x 132 opt. |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8.7 x 4.3 128 7 x 7 No No No No | 8.7 x 4.3 128 7 x 7 No No No No | 8.7 x 4.3 128 7 x 8 dot matrix No Std. No No | 8.7 x 4.3 128 7 x 7 dot matrix No No No No | 8 x 4.5 128 7 x 9 dot matrix No Yes Yes Yes |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | No No U, D, L, R, H, Rt. Std. Std., addressable only No Std. No No Line, screen std. Std. | No No U, D, L, R, H, Rt. Std., addressable only No Std. No No Line, screen std. Std. | Up & down std. Yes U, D, L, R, Rt. Std. Std. Std. Std. Std. Std. Std. St | Std., up only Programmable U, D, L, R, H, Rt. Std. Std., addressable only Programmable Programmable Std., forward & back Programmable Programmable Char., line, screen std. | Up, down, smooth No U, D, L, R, H, Rt. Std. Yes No No Std. & program. tabs No No Line, screen, partial line, partial screen Yes |
| KEYBOARD PARAMETERS | | | | | |
| Style | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII No 3 std. Std. | 128 ASCII No 3 std. Std. | ASCII No 19 No | 128 ASCII No No Std. | ASCII Yes 4 std. Yes |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Non-impact Audible alarm std. | No No Non-impact — | No No No Audible alarm std. | No Up to 4 drives Opt. Parallel printers opt. | No No No Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | See comments Asynchronous No ASCII 75 to 9600 Char. only No No RS-232C, 20 mA current loop No No | See comments Asynchronous ASCII ASCII 75 to 9600 Char. only No No No RS-232C, 20 mA current loop No | See comments Asynchronous ASCII ASCII 75 to 9600 Char./block No No No RS-232C or 20 mA dc No No | Half/full-duplex Async.; sync. opt. ASCII ASCII 50 to 19,200 Char./block Std. No No RS-232C (two) No | Full-duplex Asynchronous ASCII ASCII 50 to 19,200 Char. only No No Ro RS-232C; current loop opt. No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | Purchase only | Purchase only 2,750 DEC | Purchase only3,275 DEC | Purchase only | Purchase only 1,900 DEC |
| COMMENTS | Transmission modes are full-duplex and full-duplex with local copy | Also provides graphics capability; transmission modes are full-duplex and full-duplex with local copy | | Price includes LSI PDP-8 with 32K RAM, dual diskette drives, and use-only software license | ANSI std. escape sequences; all user controls and adjustments can be done from keyboard; customized parameters can be saved in non-volatile memory; line drawing set std. |

| SUPPLIER AND MODEL | Digital Equipment PDT-11/110 & PDT-11/130 | Digital Equipment PDT-11/151 | ECD Smart ASCII | EECO Editor I | Elbit DS 1920 |
|---|---|--|---|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 4 No No Std. No Yes | Either 4 No No Std. No Yes | Stand-alone 1 No 3270 Std. Yes | Either 1 No No Std. No | Stand-alone 1 No No Std. No No |
| Self diagnostics | Yes | Yes | Opt. | Yes | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920; 3168 opt. 24 x 80; 24 x 132 opt. | 1920; 3168 opt. | 4096 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8 x 4.5 128 7 x 9 dot matrix No Yes Yes Yes | 8 x 4.5 128 7 x 9 dot matrix No Yes Yes Yes | 8.25 x 11.0 128 user-program. 8 x 12 dot matrix Opt. colored fields User-selectable No Std.; user-program- | 12-in. diag. 128 5 x 9 dot matrix Opt. Std. 2 std. Std. | 8 x 5.24/6.3 x 10 x 64/96/128 5 x 8 dot matrix No No No Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return | Up, down, smooth No U, D, L, R, H, Rt. | Up, down, smooth No U, D, L, R, H, Rt. | mable Std., up & down Mult. page, scroll std. Std., 16 commands | Up std. Opt. U, D, L, R, H, Rt. | Up std. No U, D, L, R, H, Rt. |
| Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Std. Yes No No Std. & program. tabs No No Line, screen, partial line, partial screen Yes | Std. Yes No No Std. & program. tabs No No Line, screen, partial line, partial screen Yes | Std., user-selectable Std. Std. Std. Forward & back. std. Std. Std. Char., word, line, para., buffer std. Std.; all char. | Std., user-selectable Both std. Std. Std. Std. Std. Std. Std. Std. S | Std. Std. Std. Model 30 Model 30 Model 30 Model 30 Model 30 No Line, screen std. Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter/data | Typewriter/data | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII Yes 4 std., 19 opt. Yes | ASCII Yes 4 std., 19 opt. Yes | ASCII, APL, EBCDIC Std. 48 std. Std. | entry, or option 128 ASCII Std. 16 std. (32 func.) Std. | 96/128 ASCII Std. Std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Yes (130 only) No No Audible alarm std. | No Yes No Audible alarm std. | Single std., dual opt. Dual 8-in. floppy opt. Daisy wheel opt. Other sizes of CRT's | No No Opt. Aux. RS-232C inter- face, audible alarm std. | No No RS-232C interface Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Full-duplex Async./sync. ASCII ASCII 50 to 9600 Char. only No No No RS-232C | Full-duplex Async./sync. ASCII ASCII 50 to 9600 Char. only No No No RS-232C | Half/full-duplex Async./sync. ASCII/BSC ASCII, EBCDIC 110 to 9600 Char., line, block std. Std. No No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 50 to 19,200 Char./segment/page Burroughs TD800 opt No No RS-232C, 20 mA do | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./block No No No RS-232B/C 20 mA dc |
| Integral modem Integral acoustic coupler | No No | No No | No No | std. No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | Purchase only 3,900-6,000 1/79 19 DEC | Purchase only 6,920-7,920 10/78 400 DEC | 481 (rental) — — 7,700 6/78 ECD | Purchase only — — — — — — — — 1,750 — — 2/77 2000+ EECO | Purchase only |
| COMMENTS | Compatible with PDP-11 software | Compatible with PDP-11 software | User-program. key- board/char. set; foreign lang. char. sets avail.; 3-year rental, \$383/mo.; 5- year rental, \$301/ mo.; can also be used as stand-alone or communicating work processor | Std. one-year war- ranty; programmable keyboard | |

| SUPPLIER AND MODEL | Four-Phase Systems System IV/50 | Four-Phase Systems System IV/40 | Four-Phase Systems System IV/70 | Four-Phase Systems System IV/90 |
|---|--|--|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Cluster 24 No 3270, 2260/2265 No IBM 3770, others Yes | Cluster 16 No 3270, 2260/2265 No IBM 2948, others Yes | Cluster 32 No 3270, 2260/2265 No IBM 2948, others Yes | Cluster 32 No 3270, 2260/2265 No IBM 2948, others Yes |
| Self diagnostics | Yes | Yes | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1152/1920 24 x 48/80 | 1152/1920 24 x 48/80 | 1152/1920 24 x 48/80 | 1152/1920 24 x 48/80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 7.25 x 10.25 125 7 x 9 dot matrix No No 3 std. Both std. | 7.25 x 10.25 125 7 x 9 dot matrix No No 3 std. Both std. | 7.25 x 10.25 125 7 x 9 dot matrix No No 3 std. Both std. | 7.25 x 10.25, 15" diag. 125 7 x 9 dot matrix No No 3 std. Both std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase. | Up & down std. Multiple paging std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. S | Up & down std. Multiple paging std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Up & down std. Multiple paging std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Up & down std. Multiple paging std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. S |
| Character repeat | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys | Typewriter/data entry ASCII/EBCDIC Std. 12 std. Std. | Typewriter/data entry ASCII/EBCDIC Std. 12 std. Std. | Typewriter/data entry ASCII/EBCDIC Std. 12 std. Std. | Typewriter/data entry ASCII/EBCDIC Std. 12 std. Std. |
| Numeric keypad ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Single Impact Disk drives & line printers, audible alarm opt. | No Single Impact Disk & tape drives, card reader, line printers, audible alarm opt. | No Single Impact Disk & tape drives, card reader, line printers, audible alarm opt. | No No Impact Disk & tape drives, card reader, line printers, audible alarm opt. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. BSC/SDLC ASCII/EBCDIC 1200-9600 Char./block Std. Std. Opt. RS-232B/C | Half/full-duplex Async./sync. BSC/SDLC ASCII/EBCDIC 1200-9600 Char./block Std. Std. Opt. RS-232B/C | Half/full-duplex Async./sync. BSC/SDLC ASCII/EBCDIC 1200-9600 Char./block Std. Std. Opt. RS-232B/C | Half/full-duplex Async./sync. BSC/SDLC ASCII/EBCDIC 1200-9600 Char./block Std. Std. Opt. RS-232B/C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 51 — Contact vendor — 2.415 Contact vendor 12.76 See IV/90 Four-Phase | 51 — Contact vendor — 2,415 Contact vendor 7/73 See IV/90 Four-Phase | 51Contact vendor | 51 — Contact vendor — 2,415 Contact vendor Third quarter 1978 Over 35,000 (all) Four-Phase |
| COMMENTS | Available with System IV/ 55, a small terminal with 1 or 2 display stations & limited capability for minor locations | Available with System IV/30; see IV/70 | Available with System IV/ 30, a small terminal with 1 or 2 display stations & limited capability for minor locations | |

| SUPPLIER AND MODEL | Goodwood Data Systems GDS-100 | Goodwood Data Systems GDS-300 | Goodwood Data Systems GDS-366 | Goodwood Data Systems GDS-400 | Goodwood Data Systems EDS-500 |
|---|---|--|---|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 Yes 2701, 2741 No No No | Either 8 or 16 No 3270, 2260/2265 Std. No No | Cluster 32 No 2780/3780 Std. No | Either 16 No 3270, 2260/2265 Std. No Yes | Either 4 No 3270, 2260/2265 Std. No Yes |
| Self diagnostics | No | No | Yes | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 980/1920 12/40, 24/80 | 256 to 1920 8/32 to 24/80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | Variable — 5 x 7 dot matrix No No No ·No | Variable 64; 96 5 x 7 dot matrix No Opt. No Char. only | 12-inch diag. 64 5 x 7 dot matrix No Opt. No Both std. | 12-inch diag. 64; 128 opt. 5 x 7 dot matrix No Std. Std. Both std. | 12-inch diag. 64 5 x 7 dot matrix No Opt. Opt. Both std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Up std. No L, R, Rt. Opt. Addressable line No No No No No Screen | No No U, D, L, R, H, Rt. No Addressable only No No No No No No Line, screen | No Yes U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. | Yes Yes U, D, L, R, H, Rt. Std. Readable Std. Opt. Std. Std. Std. Std. Char., line, screen std. | Yes Yes Yes U, D, L, R, H, Rt. Std. Addressable Std. Std. Std. Std. Std. Std. Std. Std. |
| Character repeat | No | No | std. Std. | Std. Std. | Opt. |
| KEYBOARD PARAMETERS Style | Typewriter | Any | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | APL Std. No No | ASCII Std. Any Opt. | ASCII Std. 16 opt. Std. | ASCII/CSA Std. 16 opt. Std. | ASCII/CSA Std. 16 opt. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No No No | No No No Light pen | No Yes Yes Audible alarm opt. | Yes Yes Yes Disk, audible alarm std. | Yes Yes — Disk, audible alarn |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Full-duplex Asynchronous IBM 2741 IBM Corresp. 134.5 Char. only No No No RS-232C | Full-duplex Asynchronous ASCII ASCII 1200 to 9600 No No No No No RS-232C | Half/full-duplex Async:/sync. ASCII 300 to 9600 Char. only No No No RS-232C | Half/full-duplex Async./sync. ASCII ASCII 300 to 9600 Char. only No Opt. Opt. RS-232C | Half/full-duplex Async./sync. ASCII 300 to 9600 Char. only No Opt. Opt. RS-232C |
| Integral modem Integral acoustic coupler | No Std. | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Contact vendor 1,800-2,200 4/73 Over 100 Goodwood Portable controller | Contact vendor Contact vendor 7/74 Goodwood | Contact vendor Contact vendor Goodwood | Contact vendor Contact vendor Goodwood | Contact vendor Contact vendor Goodwood |
| · | with keyboard; uses video monitor; replaces the IBM 2741 | | | | |

| SUPPLIER AND MODEL | Harris Data | Harris Data | Harris Data | Harris Data | Harris Data |
|---|---|---|---|---|---|
| | Communications 804/810 | Communications 8170 | Communications 8180 | Communications 8210 | Communications 8220 |
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 1 No 2260/2265 No No Yes | Cluster 32 No 3270 BSC, SDLC No IBM 2260/2265 Yes | Either 32 No 3270 BSC, SDLC No Yes | Either 32 No No No Univac 100/200 No | Either 32 No No No No Burroughs TD 800 No |
| Self diagnostics | Yes | Yes | Yes | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 480/960/1920 12/24 x 40/80 | 480/960/1920 12/24 x 40/80 | 480/960/1920 12/24 x 40/80 | 960/1024/1920 12/24 x 80; 16 x 64 | 960/1920 12/24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 7.5 x 9.5 64; 96 opt. 5 x 7 dot matrix No No No Std. | 12-inch diag. 128 7 x 9 dot matrix No No 2 std. Std. | 12-inch diag. 128 7 x 9 dot matrix No No 2 std. Std. | 12-inch diag. 96 7 x 9 dot matrix No No 2 std. Std. | 12-inch diag. 96 7 x 9 dot matrix No No 2 std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | No No U, D, L, R, H, Rt. Std. Std. Opt. Opt. Std. Opt. Opt. Char., line, screen std. Std. | — No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | — No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. Opt. Char, line, screen std. Std. | No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Opt. Std. Char. opt.; line, screen std. | No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Typewriter/data entry ASCII No Std. | Typewriter/data entry/others EBCDIC/ASCII Std. 20 Std. | Typewriter/data entry/others EBCDIC/ASCII Std. 14 Std. | Typewriter/data entry/others 96 ASCII Std. 6 Std. | Typewriter/data entry/others 96 ASCII Std. 12 Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Dual No Impact Card reader disk, audible alarm, light pen, mag tape (810) | No No Impact Audible alarm, light pen, I.D. card reader | No Opt. dual Impact Disk drive, audible alarm, light pen, I.D. card reader | No Opt. dual Impact Audible alarm std. | No Opt. dual Impact Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. BSC ASCII/EBCDIC 110 to 9600 Char./block Opt. Opt. No RS-232C | Half-duplex Synchronous BSC/SDLC EBCDIC/ASCII 1200 to 9600 Block Std. Opt. No RS-232C | Half-duplex Synchronous BSC/SDLC EBCDIC/ASCII 1200 to 9600 Block Std. Opt. No RS-232C | Half/full-duplex Async./sync. —SCII 4800 to 9600 Block Std. No No RS-232C | Half-duplex Async./sync. — ASCII 300 to 9600 Char./block Std. No No RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 75 | See comments 1974/1976 12,000 Harris | See comments 1974/1976 2,500 Harris | See comments 1975 2,500 Harris | See comments |
| COMMENTS | The 804 is a stand- alone system; 810 is a cluster system; former Sanders Data Systems products | Former Sanders Data Systems product; typical 6- display system rents for \$477/mo. (3 yr.) and sells for \$18,153 | Former Sanders Data Systems product; typical 6- display system rents for \$727/mo. (3 yr.) and sells for \$25,600 | Former Sanders Data Systems product; typical 4- display system rents for \$427/mo. (3 yr.) and sells for \$16,212 | Former Sanders Data Systems product; typical 4- display system rents for \$427/mo. (3 yr.) and sells for \$16,212 |

| SUPPLIER AND MODEL | Harris Data Communications 8770 | Hazeltine 1400/1410 | Hazeltine 1500 Series | Hazeltine 2000 | Hazeltine Modular One |
|--|---|--|---|---|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 32 No No No No HIS 7700/7750 | Stand-alone 1 No No Yes No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. See comments |
| Self diagnostics | Yes | No | No | No | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 960/1012/1920 12/24 x 80; 22 x 48 | 1920 24 x 80 | 1920 24 x 80 | 1998; 2000 22 x 74; 25 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-inch diag. 96 7 x 9 dot matrix No No 2 std. Std. | 6 x 9 64 ASCII 5 x 7 No No No | 6 x 9 95 7 x 10 dot matrix No Std. Std. No | 6.0 x 8.5 64 std; 96 opt. 5 x 7 dot matrix No No 2 std. Field opt. | 6.0 x 9.0 64 std.; 96 opt. 7 x 9 dot matrix No Std. 2 std. Field std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | — No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Up std. No U, D, L, R, H, Rt. No Std. No No No No Sto. No No No No No No No No No No No No No | Up std. No U, D, L, R, H, Rt. Both std. Std.; 1510 & 1520 Std.; 1510 & 1520 Std. No Std. Char., line, screen std. | Up std. Yes U, D, L, R, H, Rt. Opt. Std. addressable only Std. Std. Std. Std. Std. Std. Std. Char., screen std. | Up std. No U, D, L, R, H, Rt. Opt. (no cost) Std. Std. Std. Std. Std. Std. Std. Char., line, screen std. |
| Character repeat KEYBOARD PARAMETERS | Std. | No | Std. | Std. | Std. |
| Style | Typewriter/data entry/others | Teletype | Typewriter | Teletype | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 96 ASCII Std. 36 Std. | 128 ASCII No No Std. (1410 only) | 128 ASCII No Std., 1510 & 1520 Std. | ASCII Std. No Std. | ASCII Std. 8 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Opt. dual Impact Audible alarm std. | No No No No | No No RS-232C interface | Dual No Impact/non-impact Audible alarm std. | No No No Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half-duplex Sync. —ASCII 2000 to 4800 Block Std. No No RS-232C | Half/full-duplex Asynchronous ASCII ASCII Up to 9600 Character No No No RS-232C | Half/full-duplex Asynchronous ASCII ASCII Up to 19,200 Char., line, block No No No No RS-232C, 20-mA dc current loop | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./block No No No RS-232B/C | Half/full-duplex Async.; sync. opt. User-defined ASCII 110 to 9600 Char.; block opt. Opt. No No RS-232B/C, 20 mA dc current loop |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | See comments | No 850 (1400); 900 7/78 See 2000 Hazeltine (factory) Said to be lowest IC-count terminals | No | 98 | No |
| | product; typical 4- display system rents for \$427/mo. (3 yr.) and sells for \$16,212 | in industry; based on microcomputer technology; two-year warranty is standard | Buffered Terminal; 1520 Buffered Terminal with addi- tional 2K Print Buffer | 202C or current loop interface; over 90,000 Hazeltine displays (all models) have been delivered | cost options in- cluding emulators for Burroughs, Honeywell, & Univac displays |

| SUPPLIER AND MODEL | Hewlett-Packard 2621A/P | Hewlett-Packard 2640B | Hewlett-Packard 2641A | Hewlett-Packard 2645A | Hewlett-Packard 2649A |
|---|--|--|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Opt. No No | Stand-alone 1 No No Opt No No | Stand-alone 1 No No Opt. No No | Stand-alone 1. No No No No No Yes |
| Self diagnostics | Std. | Yes | Yes | Yes | Opt. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-inch diag. 128 ASCII 7 x 9 dot matrix No No No No | 5 x 10 128; 512 opt. 7 x 9 dot matrix No Std. 2 opt. Opt. | 5 x 10 128; 512 opt. 7 x 9 dot matrix No Std. 2 opt. Opt. | 5 x 10 128; 512 opt. 7 x 9 dot matrix No Std. 2 opt. Opt. | 5 x 10 512 opt. 7 x 9 dot matrix No Std. 2 opt. Opt. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Up, down std. 2 pages std. U, D, L, R, Home-up, Home-down, Rt. Std. Both std. No Char., line std. Fwd./back std. Std. Std. Char., line, screen std. Std. Std. | Std.; up & down Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Std., up & down Std. U, D, L, R, H, Rt. Std. Both std. Std. Std. Std. Std. Std. Std. Char., line, screen std. | Std., up & down Std. U, D, L, R, H, Rt. Std. Both std. Std. Std. Std. Std. Std. Std. Char., line, screen std. Std. | Opt. Std. U, D, L, R, H, Rt. Std. Both std. Opt. Opt. Opt. Opt. Opt. Char., line, screen opt. Opt. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Character / code set Detachability Program function keys Numeric keypad | 128 ASCII Std. '8 std. Embedded std. | 128 ASCII Std. 8 std. Std. | 128 ASCII Std. 8 std. Std. | 128 ASCII Std. 8 std. Std. | Specified Std. 8 opt. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Integ. thermal (2621P) No | No No Impact ∕ non-impact Audible alarm std. | Dual drive No Impact/non-impact Audible alarm std. | Dual drive No Impact/non-impact Audible alarm std. | Dual drive No RS-232 interface Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Full-duplex Asynchronous ASCII ASCII 110 to 9600 Char., line No No No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110 to 2400 Block/char. No Opt. No RS-232C, current loop | Half/full-duplex Async./sync. ASCII/BSC ASCII/BSCDIC 110 to 9600 Block/char. Opt. Opt. No RS-232C, current | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 9600 Block/char. Opt. Opt. No RS-232C, current loop | Half/full-duplex Async./sync. ASCII/BSC Specified 110 to 9600 Block/char. Opt. Opt. No RS-232C opt. |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 72.50/127.50 — — — 1,450/2,550 — 10/78 — | 130 2,600 1/75 See comments | 205 4,100 1/77 See comments HP | 175 — — 3,500 — 10/76 See comments | Purchase only |
| COMMENTS | Interactive terminal with enhanced high-resolution display, 8 screen-labeled control keys, soft configuration, and integral 120-cps thermal printer (2621P only) | HP Over 45,000 264X terminals have been installed | Over 45,000 264X terminals have been installed | Over 45,000 264X terminals have been installed | Over 45,000 264X terminals have been installed |

| SUPPLIER AND MODEL | Honeywell VIP 7100/7105 | Honeywell VIP 7200 | Honeywell VIP 7700 | Honeywell VIP 7700R/ 7705R | Honeywell VIP 7760 |
|---|---|--|--|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. No No | Either 10 No No No No Honeywell | Stand-alone 1 No No No Honeywell No | Cluster 8 to 32 No No No Honeywell No |
| Self diagnostics | No | No | Yes | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 960 12 x 80 | 1920 24 x 80 | 960/1920 12/24 x 80 | 1920 24 x 80 | 960/1920 12/24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-inch diag. 63/95 5 x 7 dot matrix No No No No | 12-inch diag. 64/95 5 x 7 dot matrix No No Std. Opt. | 5.5 x 8.5 63; 96 opt. 5 x 7 dot matrix No No No Std. | 12-inch diag. 63/95 5 x 7 dot matrix No No No No Both std. | 6 x 9 96 7 x 9 dot matrix No No No Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std., up only No L, R, Rt. No No No No No No No Screen std. | Std., up only No U, D, L, R, H, Rt. Std. Std. No No No No No No No Line & screen std. | No No U, D, L, R, H, Rt. Std.; addressable only Std. Std. Std. Std. Std. Std. Char., line, | Std. Std. Std. Std. Std. Char., line, | No Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St |
| Character repeat | S.J | C. d | screen std. | screen std. | screen std. |
| KEYBOARD PARAMETERS Style | Std. | Std. | Std. | Std. | Std. |
| Character/code set Detachability Program function keys Numeric keypad ANCILLARY DEVICES Cassette tape drive | Typewriter 128 ASCII Std. Std. No | Typewriter 128 ASCII Std. 14 std. Std. | Typewriter ASCII No 36 opt. Std. | Typewriter 128 ASCII Std. Std. Std. | Typewriter ASCII Opt. 26 std. Std. |
| Diskette drive (floppy disk) Serial printer Other devices | No No No Audible alarm std. | No No No | Dual No Impact I.D. card reader opt. | No No Impact No | No Yes Opt. No |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler PRICING AND AVAILABILITY Display station 1 year lease \$ /mo | Full-duplex Asynchronous ASCII ASCII 75 to 4600 Char. only No No No RS-232C, CCITT, or 20/60 mA dc No | Half/full-duplex Asynchronous ASCII 75 to 9600 Char./block No No No RS-232C, 20 mA current loop No | Half-duplex Synchronous ASCII Honeywell 2000 to 4800 Block only Std. Opt. No RS-232C | Half-duplex Synchronous Honeywell ASCII 2400/4800/9600 Block only Std. Opt. Opt. RS-232C or CCITT No | Half/full-duplex Synchronous VIP ASCII 2400/4800/9600 Block only Std. Opt. No RS-232C, CCITT V.24 No No |
| Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Purchase only | Purchase only | 157-285 — 98 — 4,860-8,770 3,025 10/73 Over 5000 Honeywell | 174 — — — 3,390-3,990 3/77 Over 2000 Honeywell Up to 10 units can be multidropped on a single line | 51 — 462 — 1,750 16,800 5/76 Over 2000 Honeywell |

| Stand-alone 1 No No No Std. No Std. 1920 24 x 80 12-inch diag. 106 7 x 10 dot matrix No Std. Std. Std. Std. Std. Std. Std. Std. | Stand-alone 1 No No Std. No Via user-defined parameters No 1920 24 x 80 12-inch diag. 128 ASCII/APL 7 x 9 dot matrix No Std. 3 std. Char. std. Std.; up & down 8 pages opt. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. | Cluster 32 No 3270 System No No No Via host DEMF soft- ware 480/1920 12 x 40; 24 x 80 14-inch diag. 64 std.; 120 APL opt. 7 x 9 dot matrix No No 2 std. No No No U, D, L, R | Cluster 32 No 3270 System No No No Via host DEMF soft- ware See comments 12 x 40; 12/24/32/ 43 x 80 14-inch diag. 64; 96; 120 APL 7 x 9/14, 7 x 11 No No 2 std. No | Stand-alone 1 No 3270 System No No Via host DEMF soft- ware 1920 24 x 80 — 14-inch diag. 64 std.; 120 APL opt. 7 x 9 dot matrix No No 2 std. No |
|---|--|--|---|---|
| 1920 24 x 80 12-inch diag. 106 7 x 10 dot matrix No Std. Std. Std. Std. U, D, L, R, H, Rt. Opt. Both std. Std. No | 1920 24 x 80 12-inch diag. 128 ASCII/APL 7 x 9 dot matrix No Std. 3 std. Char. std. Std.; up & down 8 pages opt. U, D, L, R, H, Rt. | ware 480/1920 12 x 40; 24 x 80 14-inch diag. 64 std.; 120 APL opt. 7 x 9 dot matrix No No 2 std. No No | ware See comments 12 x 40; 12/24/32/ 43 x 80 14-inch diag. 64; 96; 120 APL 7 x 9/14, 7 x 11 No No 2 std. No No | ware 1920 24 x 80 — 14-inch diag. 64 std.; 120 APL opt. 7 x 9 dot matrix No No 2 std. |
| 24 x 80 12-inch diag. 106 7 x 10 dot matrix No Std. Std. Std. Std. No U, D, L, R, H, Rt. Opt. Both std. Std. No8 No8 Std. Std. Std. | 24 x 80 12-inch diag. 128 ASCII/APL 7 x 9 dot matrix No Std. 3 std. Char. std. Std.; up & down 8 pages opt. U, D, L, R, H, Rt. Std. | 12 x 40; 24 x 80 14-inch diag. 64 std.; 120 APL opt. 7 x 9 dot matrix No No 2 std. No No | 12 x 40; 12/24/32/ 43 x 80 14-inch diag. 64; 96; 120 APL 7 x 9/14, 7 x 11 No No 2 std. No | 24 x 80 — 14-inch diag. 64 std.; 120 APL opt. 7 x 9 dot matrix No No 2 std. |
| 106 7 x 10 dot matrix No Std. Std. Std. Std. No U, D, L, R, H, Rt. Opt. Both std. Std. No8 Std. Std. Std. Std. Std. Std. Std. Std. | 128 ASCII/APL 7 x 9 dot matrix No Std. 3 std. Char. std. Std.; up & down 8 pages opt. U, D, L, R, H, Rt. Std. | 64 std.; 120 APL opt. 7 x 9 dot matrix No No 2 std. No No | 14-inch diag. 64; 96; 120 APL 7 x 9/14, 7 x 11 No No 2 std. No | 64 std.; 120 APL opt. 7 x 9 dot matrix No No 2 std. |
| No U, D, L, R, H, Rt. Opt. Both std. Std. No8 Std. | 8 pages opt. U, D, L, R, H, Rt. Std. | No | | |
| Std. Std. End-of-page, end-of-field Std. | Std. Std. Std. Std. Std. Std. Std. Std. | No Std.; addressable only Std. Std. Std. Std. No Char., line, screen std. Std. | No U, D, L, R, H, Rt. Std.,addressable only Std. Std. Std. No Char., line, screen std. Std. | No No U, D, L, R No Std.,addressable only Std. Std. Std. No Char., line, screen std. Std. |
| Typewriter | Typewriter | Several | Several | Several |
| 128 ASCII Std. 12 std. Std. | 128 ASCII Std. 8 std.; 11 opt. Std. | ASCII/EBCDIC Std. Std. Std. | ASCII/EBCDIC Std. Std. Std. | ASCII/EBCDIC Std. Opt. Std. |
| No No No Audible alarm | No No No 3 peripheral inter- faces opt. | No No Impact Audible alarm, I.D. reader, light pen, keylock | No No Impact Aud. alarm, mag. slot reader, light pen, keylock, I.D. reader, Front December | No No Impact Audible alarm, I.D. card reader, light pen, keylock |
| Full-duplex—TWA Asynchronous None ASCII 110 to 9600 Char , line, page No No No RS-232C, 20 mA | Half/full-duplex Asynchronous ASCII SO to 9600 Char./block No No No RS-232C, 20 mA | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block only Std. No No RS-232C | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block only Std. No No RS-232C | Half/full-duplex Synchronous 35C/SDLC ASCII/EBCDIC 1200 to 9600 Block only Std. No No RS-232C |
| No No | No No | | | No No |
| | | 84-168 71-143 155-638 132-540 2,990-4,954 4,735-13,028 2nd qtr. 1972 — IBM See Report 70D-491-11 for details | 71-112 60-95 344-791 293-671 2,700-4,275 13,190-28,600 2/78 — IBM Display positions available include 480, 960, 1920; 2560, and 3440; controller accommo- dates 3278 and 3277 display stations; see Report 700-491-11 | f136-186 116-158 — 4,735-6,440 — 2 qtr. 1972 — IBM See Report 70D-491-11 for details |
| | No No Audible alarm Full-duplex—TWA Asynchronous None ASCII 110 to 9600 Char , line, page No No No RS-232C, 20 mA No No Holomore No No No No No State No No No No No No No No No No No No No | No No No No Audible alarm Full-duplex—TVVA Asynchronous None ASCII ASCI | No No No Audible alarm Full-duplex—TVVA Asynchronous Asynchronous None ASCII | No No No Audible alarm No No Audible alarm |

| SUPPLIER AND MODEL | IBM 3276/3278 Information Display System | IBM 3790 Communication System | IBM System / 32 | IBM System / 34 | IBM 5250 Information Display System |
|---|--|--|--|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Cluster 8 No 3270 System No No No | Cluster 16 No No No No No | Stand-alone 1 No Yes No No Std.; RPG II and assembler | Cluster 16 local; 64 remote No Yes No No Std.; RPG II, COBOL, assembler, FORTRAN | Either Up to 9 No SDLC No No No |
| Self diagnostics | Via host DEMF soft- | No | Yes | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | ware See comments 12/24/32/43 x 80 | 480/1920 12 x 40; 24 x 80 | 240 6 x 40 | 960, 1920 12/24 x 80 | 960, 1920 12/24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 14-inch diag. 96; 120 APL opt. 7 x 9/14, 7 x 11 No No 2 std. No | 14-inch diag. 64 7 x 9 dot matrix No No 2 std. No | 8 x 16 dot matrix No | 8 x 16 dot matrix No Std. Std. | 12-/15-inch diag. 96;188 Multi-Nat'l opt 8 x 16 dot matrix No Std. Std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | No No U, D, L, R, H, Rt. No Std.;addressable only Std. Std. Std. Std. No Char., line, screen std. | No No U, D, L, R, No Std.,addressable only Std. Std. Std. No Char., line, screen std. | No L, R — Both std. No — — | Std. No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. No Char., field, screen std. | Std. No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St |
| Character repeat | Std. | Std. | _ | Std. | Std. |
| KEYBOARD PARAMETERS Style | Several | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII/EBCDIC Std. Opt. Std. | ASCII/EBCDIC Std. Opt. Std. | EBCDIC Std. 24 std. Std. | EBCDIC Std. 24 std. Std. | EBCDIC Std. 24 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Impact Audible alarm, mag. slot reader, light pen, keylock, | No No IBM 3793 Disk, remote termi- nals, audible alarm, I.D. reader, light pen | Impact Disk, line printer, data recorder & | No Sing./dual/magazine Impact Disk; line printer; aud. alarm; MICR, mag stripe, & | No No Impact Mag. stripe reader, selector light pen, aud. alarm, keylock |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Encrypt/Decrypt Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block only Std. No No RS-232C | Half-duplex Synchronous SDLC EBCDIC 1200/2400 Block only Std. No RS-232C opt. | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC Up to 4800/7200 | multiple cassette readers Half/full-duplex Synchronous BSC/SDLC EBCDIC Up to 9600 Block only Opt. Opt. No RS-232C | Half/full-duplex Synchronous BSC/SDLC EBCDIC 1200 to 9600 Block only Yes Yes No RS-232C, twinax cable |
| Integral modem Integral acoustic coupler | No No | Opt. No | Opt.; 1200/2400 No | Opt.; 1200/2400 No | Opt. No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 71-92 60-78 167-229 142-196 2,700-3,510 6,390-8,820 2/78 ———————————————————————————————————— | See Comments | | See comments — | |
| | available include 960, 1920, 2560, and 3440; see Report 70D-491-11 for details | processor data entry system; pricing is complex and depends upon system configu- ration; see Report 70D-491-42 for details | computer system; see Report 70C-491-25 for | computer system; pricing is complex and depends on con- fig.; see Report 70D-491-42 for de- tails | S/34, S/38, and Series/1; 5251-1/11 is remote cluster or local station; 5251- 2/12 is remote clus- ter controller/station; 5252 is remote clus- ter or local dual station |

| SUPPLIER AND MODEL | Incoterm SPD 15/25 | Incoterm SPD 20/20 & SPD 20/30 | Incoterm SPD 20/40 | Incoterm SPD 315/315LFC | Incoterm SPD 320/330 & SPD 320/330LFC |
|---|---|--|---|---|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Cluster 8 No 3277 BSC, SDLC Std. Several Yes | Cluster 32 No 3270 SDLC Std. Several Yes | Cluster 32 No 3270, 2260 Std. Several Yes | Mini-cluster 4 No 3270 BSC, SDLC No No Yes | Cluster 32 No 3270 BSC, SDLC No No No |
| Self diagnostics | Std. | No | No | Yes | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 480 to 2000 12/15/16/24/25/ 30 x 40/64/80 6.5 x 9 64; 128 opt. 8 x 10 dot matrix No No 2 std. Opt. | 960/2000 12/15/16/24/25/ 30 x 40/64/80 6.5 x 9 64; 128 opt. 8 x 10; 8 x 12 opt. No No 2 std. Opt. | 960/2000 12/15/16/24/25/ 30 x 40/64/80 6.5 x 9 64; 128 opt. 8 x 10; 8 x 12 opt. No No 2 std. Opt. | 960/1920/2000 12/24/25 x 80 6.5 x 9 64 8 x 10 dot matrix No No 2 std. Opt. | 960/1920 12/24 x 40/80 6.5 x 9 64 7 x 10 dot matrix No No 2 std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Opt. Opt. U, D. L, R, H, Rt. Std. Std. Opt. Opt. Opt. Opt. Opt. Opt. Opt. Opt | Opt. Opt. Opt. U, D, L, R, H, Rt. Std. Std. Std. Opt. Opt. Opt. Opt. Opt. Char., line, screen opt. | Opt. Opt. U, D, L, R, H, Rt. Std. Std. Std. Opt. Opt. Opt. Opt. Opt. Char., line, screen oot. | No No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | No No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St |
| Character repeat | Opt. | Opt. | Opt. | _ | Std. |
| KEYBOARD PARAMETERS Style | Several | Several | Several | Several | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | Several Std. 24 std. Opt. | Several Std. 24 std. Opt. | Several Std. 24 std. Opt. | ASCII/EBCDIC Std. 24 std. Std. | EBCDIC/ASCII Std. 24 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Single/dual Impact — | No Single/dual Impact Card readers & punches, mag. tape drives, audible alarm | No Single/dual Impact Disk, line printers, card readers, mag. tape, audible alarm | No Dual Impact Line printers, audible alarm | Single Dual on LFC Impact Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. BSC/SDLC/HDLC ASCII/EBCDIC Up to 9600 Char./block Std. Opt. No RS-232C | Half/full-duplex Async./sync. BSC/SDLC/HDLC ASCII/EBCDIC Up to 9600 Char./block Opt. Opt. No RS-232C | Half/full-duplex Async./sync. BSC/SDLC/HDLC ASCII/EBCDIC Up to 9600 Char./block Opt. No No RS-232C | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Char./block Std. No No RS-232C | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block only Std. No No RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | Contact vendor | Contact vendor | Contact vendor Contact vendor Contact vendor Contact vendor 1977 Honeywell FED | Contact vendor | Contact vendor |
| COMMENTS | Microprocessor- driven terminal controller | Extensive software support includes emulators and assemblers; alternate display format is 15/30 x 64 | | | See Report 70D-495-01 for de- tails on the Incoterm product line; Inco- term was acquired by Honeywell early in 1978 |

| SUPPLIER AND MODEL | Incoterm SPD 815/815LFC | Inforex 7000 Standalone System | Inforex 7000 Cluster System | Informer 301 Series | Informer 302 Series |
|--|--|--|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Mini-cluster 4 No No No Burroughs TD 820 Yes | Stand-alone 1 No 2780/3780 No No Yes | Cluster 8 No 2780/3780 No No Yes | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. No No |
| Self diagnostics | Yes | Yes | Yes | No | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 960/1920/2000 12/24/25 x 80 | 1920 24 x 80 | 1920 24 x 80 | 512; 1024 opt. 16 x 32; 16 x 64 opt. | 512 16 x 32 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6.5 x 9 64 8 x 10 dot matrix No No 2 std. Opt. | 6 x 8.4 96 ASCII; 128 opt. 5 x 7 dot matrix No No 2 std. Field std. | 6 x 8.4 96 ASCII; 128 opt. 5 x 7 dot matrix No No 2 std. Field std. | 3.5 x 4.5 64 ASCII; 96 opt. 5 x 7 dot matrix No No 2 std. Char. opt. | 3.5 x 4.5 64 ASCII 5 x 7 dot matrix No No 2 std. No |
| Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Erase | No No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | No No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. No Char., screen std. | No No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. No Char., screen std. | Up std. No U, D, L, R, H, Rt. Opt. Std. addressable only Std. No No No No Screen, std. | No No U, D, L, R, H, Rt. No Std. addressable only Std. No Forward std. No No Screen, unprotected |
| Character repeat | screen opt. | Std. | Std. | Opt. | No . |
| KEYBOARD PARAMETERS Style | Several | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII/EBCDIC Std. 24 std. Std. | 96 ASCII, specials Std. 15 std. Std. | 96 ASCII, specials Std. 15 std. Std. | ASCII Opt. 10 std. Std. | ASCII Opt. 10 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Dual Impact Line printers, audible alarm | No Dual / quad Impact Audible alarm std. | No Dual/quad Impact 40 MB disk, mag. tape, line printer | No No No Audible alarm std. | No No No Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. Async./sync. ASCII/EBCDIC 1200 to 9600 Char./block Std. No No RS-232C | Half/full-duplex Async./sync. BSC ASCII/EBCDIC Up to 4800 Block only No Yes No RS-232C | Half/full-duplex Async./sync. BSC ASCII/EBCDIC Upt o 4800 Block only No Yes No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char. No No No RS-232C; 20 mA opt. | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Block Std. No No RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Contact vendor 3/79 Honeywell FED | 463 — — — — 15,000 — 4/77 20 Inforex Base price includes one display station with processor memory and diskette drive | 711-3,000 — — — 30,000-100,000 — 4/77 Over 200 systems Inforex Base price includes one display station and 10 MB disk drive | | |
| | | | | | |

| SUPPLIER AND MODEL | Informer 304 Series | Infoton I-100 | Infoton I-200 | Infoton I-400 | Intelligent Systems Intecolor 8001 |
|---|--|--|---|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No | Stand-alone No Yes See comments | Stand-alone | Stand-alone | Stand-alone 1 No No Std. ADDS, Haz. 1500 Yes |
| Self diagnostics | Std. | _ | _ | i – | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 512 to 1920 16 x 32, 12 x 40, 16 x 64, 24 x 80 5.25 x 6.75 128 ASCII 7 x 9 dot matrix No Std. 2 std. Char. std. | 1920 24 x 80, plus 25th status line 9 x 7 128 9 x 9 dot matrix No Std. Std. | 1920 24 x 80 8.5 x 6 128 9 x 9 dot matrix No Std. No | 2000 25 x 80 9 x 7 128 9 x 9 dot matrix No Std. Std. Std. | 2000/3840 25 x 80; 48/24 x 80 (reg./double-hgt.ch.) 10 x 13 64; 192 opt. 5 x 7 dot matrix 8 fore.; 8 back. opt. Opt. No Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Up & down std. Up to 4 pages std. U, D, L, R, H, Rt. Selectable Both std. Std. Std. Std. Std. No Char., line, screen std. Std. Std. | Up std. Up std. Up std. Up std. Std. Both std. Opt. Opt. Opt. Opt. Std. Std. Char., line, screen std. Std. | Up std. U, D, L, R, H, Rt. Std. Addr. std. No No Forward std. No Std. Screen, line std. Std. | Up std. 3 pages opt. U, D, L, R, H, Rt. Std. Both std. Std. Std. Fwd./back/column. Std. Std. Char., line, screen std. Std. | Up, down std. Opt. U, D, L, R, H, Rt. Std. Std. Opt. Std. Fwd. std. Opt. Opt. Opt. Opt. Char., line, screen std. Std. |
| KEYBOARD PARAMETERS | | | | | |
| Style Character/code set Detachability Program function keys Numeric keypad | Typewriter ASCII Opt. 14 std. Std. | Typewriter 128 ASCII No 16 opt. Std. | Typewriter 128 ASCII Std. 12 opt. Opt. | Typewriter 128 ASCII Std. 8 std.; 24 opt. Std. | Typewriter 192 ASCII Std. 16 opt. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No RS-232C interface Audible alarm, composite video | No No RS-232C Audible alarm std.; composite video opt. | No No RS-232C interface Audible alarm std. | No No RS-232C interface Audible alarm std. | No Yes Yes |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half/full-duplex Asynchronous ASCII ASCII 50 to 19,200 Char., line, block Selectable No No RS-232C, 20 mA opt. No | Half/full-duplex Asynchronous ASCII ASCII 110 to 19,200 Char.; line, block opt. No No No RS-232C, 20 mA No No | Half/full-duplex Asynchronous ASCII ASCII 50 to 19,200 Char. No Opt. No RS-232C, 20/60 mA No No | Half/full-duplex Asynchronous ASCII ASCII 50-19,200 Char., block, line Polling opt. No No RS-232C, 20/60 mA No | Half/full-duplex Asynchronous ASCII ASCII 110 to 76.8K Char./block No No No RS-232C |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | | Purchase only | Purchase only | Purchase only | Purchase only |

| SUPPLIER AND MODEL | International Computers Inc. 1501 | International Computers Inc. 1501-43 | International Computers Inc. 1503-43 | International Computers Inc. 1505 | Intertec Intertube II |
|---|--|--|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 1 No BSC Opt. See comments User-created programs | Either 1-16 No BSC Opt. See comments User-created programs | Either 1-16 No BSC Opt. See comments | Either 1 No BSC Opt. See comments User-created programs | Stand-alone 1 No Opt. Std. No User-defined parameters |
| Self diagnostics DISPLAY PARAMETERS | Std. | Std. | Std. | Std. | Std. |
| Display positions, chars/display Display arrangement, lines x chars./line | 256 8 x 32 | 256 8 x 32 | 256/1920 8 x 32, 24 x 80 | 1920 24 x 80 | 1920 24 x 80, plus 25th |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 5-inch diag. 64 5 x 8 dot matrix No No No Opt. | 5-inch diag. 64 5 x 8 dot matrix No No No Opt. | 5- or 12-inch diag. 64 5x8, 5x10 dot matrix No No No Opt. | 12-inch diag. 64 5 x 10 dot matrix No No No Opt. | status line 12-inch diag. 128 ASCII 8 x 8 No Std. Std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return | Opt. Programmable Programmable | Opt. Programmable Programmable | Opt. Programmable Programmable | Opt. Programmable Programmable | Std. Std. U, D, L, R, H, Rt. |
| Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Programmable Programmable Std. Std. No No No No No | Programmable Programmable Std. Std. No No No No | Programmable Programmable Std. Yes No Opt. Opt. Opt. | Programmable Programmable Std. Std. No Opt. Opt. Opt. | Std. Both std. Std. Std. Std. Std. Std. Std. Std. S |
| Character repeat | No | No | No | No | Std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Keypunch, type- writer 64 No 17 std. Opt. | Keypunch, type- writer 64 No 17 std. No | Keypunch, type- writer 64 ASCII Std. 17 std. Std. | Keypunch, type- writer 64 Std. 17 std. Std. | Typewriter ASCII No 14 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Dual Opt. Impact (char. & line) 7 x 9-tk. mag. tape | Dual — Impact 5.0 or 10.0 mega-byte fixed & removable disk; 7 & 9-tk. mag, tape | Dual Opt. Impact 5.0 or 10.0 mega- byte fixed & remov- able disk | Dual opt. Opt. Impact (char. & line) 7 & 9-tk. mag. tape | No No Impact Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. Async./bisync. ASCII/EBCDIC 1800 to 9600 Char./line/block Std. Opt. Opt. RS-232C, CCITT | Half/full-duplex Async./sync. Async./bisync. ASCII/EBCDIC 1800 to 9600 Char./line/block Std. Opt. Opt. RS-232C, CCITT | Half/full-duplex Async./sync. Async./bisync. ASCII/EBCDIC 1800 to 9600 Char./line/block Opt. Opt. Opt. RS-232C, CCITT | Half/full-duplex Async./sync. Async./bisync. ASCII/EBCDIC 1800 to 9600 Char./line/block Std. Opt. Opt. RS-232C, CCITT | Half/full-duplex Asynchronous Async./bisync. ASCII 110 to 9600 Char./line/block Opt. Opt. Opt. RS-232C std. |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 147 128 5,020 1971 10,000 TRW/ICL | 499 435 16,995 1975 750 TRW/ICL | 529 461 — 17,995 — 1974 750 TRW/ICL | 161 140 5,495 1979 500 (1502 model) TRW/ICL | |
| COMMENTS | Compatible with IBM, Honeywell, Univac, & CDC; handles up to 63 peripherals including line printers and magnetic tape drives | Compatible with IBM, Honeywell, Univac, & CDC; handles up to 63 peripherals including line printers and magnetic tape drives | Compatible with IBM, Honeywell, Univac, & CDC; handles up to 63 peripherals includ- ing line printers and magnetic tape drives | Compatible with IBM, Honeywell, Univac, & CDC; handles up to 63 peripherals including line printers and magnetic tape drives | Uses Z-80 processor; single-board design; this is Intertec's "smart" terminal from a series of three terminals pres- ently available; other units are either "dumb" or "programmable" |

| SUPPLIER AND MODEL | Jacquard J100 & J105 | Jacquard J500 | Kustom MCT-10 | Lear Siegler ADM-1A | Lear Siegler ADM-2 |
|---|---|---|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 15 J105's per J100 No 3270/75,2780,3780 Std. Un. 1004, ICL, Burr. Yes | Stand-alone 1 No 3270/75,2780,3780 Std. Un. 1004, ICL, Burr. Yes | Stand-alone 1 No; mobile 3275 No No No | Stand-alone 1 No No Std. Datapoint No | Stand-alone 1 No No Std. Burroughs TD-800 No |
| Self diagnostics | No | No ' | No | No | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 256 8 x 32 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8 x 10 96 std., 256 opt. 5 x 7 dot matrix No Yes Std. Std. | 8 x 10 96 std., 256 opt. 7 x 9 dot matrix No Yes Std. Std. | 3.38 x 9.18 64 5 x 7 dot matrix No No No No | 12-inch diag. 96 5 x 7 dot matrix No No No No | 12-inch diag. 128 5 x 9 dot matrix No No No Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Std. Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Std. Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | No No U, D, L, R, H, Std. No Std. No No Std. No No No No No No No No No No No No No | Up std. No U, D, L, R, H, Rt. Std. Std. Std. Opt. Std. Opt. Opt. Char., screen std.; line opt. Std. | Up std. No U, D, L, R, H, Rt. No Std. Std. Std. Std. Std. Std. Std. Char., line, screen std. |
| KEYBOARD PARAMETERS | | | | | |
| Style Character/code set Detachability Program function keys Numeric keypad | Typewriter ASCII Std. 20 std. Std. | Typewriter ASCII Std. 20 std. Std. | Typewriter ASCII No 11 std. No | Typewriter ASCII No No Opt. | Typewriter ASCII Std. 16 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Yes Yes Disk and tape units, aud. alarm, punch card and mag.card | No Yes Yes Disk and tape units, aud. alarm, punch card and mag. card | No No Non-impact Audible alarm std. | No No Impact Audible alarm opt. | No No Impact Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | readers Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 4800 Programmable Programmable Opt. No RS-232C | readers Half/full-duplex Async./sync. ASCII/BSC ASCII/BSC 110 to 9600 Programmable Programmable Opt. No RS-232C | Half/full-duplex Synchronous ASCII ASCII 886/1300 Block only Std. No | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./block Opt. No No RS-232C, current loop | Half/full-duplex Async./sync. ASCII ASCII 110 to 9600 Char./block Opt. No No RS-232C, current loop |
| Integral modem Integral acoustic coupler | No No | No No | Std. No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 596/116 491/96 — 14,900/2,900 — 3/74 600/300 Sorbus Price for J100 includes 32K bytes of core memory and two floppy disks; 2K bytes of memory is included with each J105 | 368 304 — 9,200 Contact vendor 2/79 75 Sorbus Price for J500 includes 64K bytes of semiconductor memory, two floppy disks, one printer controller, and two communications | | Purchase only | Purchase only |

| | | | T | I | |
|--|--|--|--|---|---|
| SUPPLIER AND MODEL | Lear Siegler ADM-3A | Lear Siegler ADM-31 | Lear Siegler ADM-42 | Megadata System 700 | Megadata SiR-1000 C-4/8 |
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Either 8 No Any IBM exc. SDLC Std. See comments No | Stand-alone 1 No Any IBM exc. SDLC Std. See comments No |
| Self diagnostics | No | No | No | Yes | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 2000 25 x 80 | 960/1920/2160 80 x 24/27; 64 x 24 | 1536 64 x 24 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-inch diag. 64/96 opt. 5 x 7 dot matrix No No No | 12-inch diag. 128 ASCII 7 x 11 dot matrix No Std. Std. Std. | 15-inch diag. 128 ASCII 7 x 11 dot matrix No Std. Std. Std. | 8.5 x 11 64 to 256 7x9;8x10/12;12x15 No Std. 2 std. Std. | 10 x 10 192 7 x 8 dot matrix Std. 4 or 8 Opt. Std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std., up only No D, Rt. No No No No No No No No No Char., screen std. | Up std. 2 pages std. U, D, L, R, H, Rt., new line — Std. Std. Std. Std. Std. Std. Std. Std. | Up std. 2 std.; 4, 6, 8 opt. U, D, L, R, H, Rt., new line — Std. Std. Std. Std. Std. Std. Std. Std. | Up & down std. Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Std. Opt. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St |
| Character repeat | Std. | Std. | Std. | std. Std. | std. Std. |
| KEYBOARD PARAMETERS Style | Teletype | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 64 ASCII No No Opt. | 128 ASCII No 1 std. (2-key seq.) Std. | 128 ASCII Std. 16 std. Std. | ASCII Std. 71 std. Opt. | ASCII Opt. 51 Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No No Audible alarm std. | No No Impact Audible alarm std. | No No Impact Audible alarm std. | Single/dual Single/dual Impact/non-impact Mag. tape, disk, line printers, audible alarm, ID reader, light pen | Single/dual Single/dual Impact Card reader, paper tape punch, audible alarm, ID card reader |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half/full-duplex Asynchronous ASCII ASCII 110 to 19,200 Char./block No Opt. No RS-232C, current loop No | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char./block Opt. No No RS-232, 20 mA current loop No | Half/full-duplex Async.; sync. opt. ASCII ASCII 50 to 9600 Char./block Opt. No RS-232, 20 mA current loop No | Half/full-duplex Async./sync. ASCII/BSC/SDLC ASCII/EBCDIC Up to 19,200 Char./block Std. Opt. Opt. RS-232C, CCITT V.24, 20/60 mA Opt. Opt. | Half-duplex Async./sync. ASCII ASCII See comments Char./block Std. Opt. No RS-232C Opt. Opt. Opt. |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Purchase only | Purchase only 1,450 78 500 Lear Siegler & third party | Purchase only 1,795 78 500 Lear Siegler & third party | Third-party lease | Third-party lease |

| SUPPLIER AND MODEL | Megadata Series 2001 Workstation | Megadata MC-77 | Memorex 1377-4 | Micro-Term ACT-IA | Micro-Term ACT-V |
|--|--|--|---|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No Any IBM exc. SDLC Std. See comments No | Either 8 No 3277 Std. Hazeltine, Univac No | Cluster 32 No 3277-2 No No No | Stand-alone 1 Yes (9 lbs.) No Std. No No | Stand-alone 1 No No Std. No |
| Self diagnostics | Yes | Opt. via user- | Std. | No | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1600 80 x 20 | defined firmware 1920 80 x 24 | 1920 24 x 80 | 1024 16 x 64 | 1920 24 x 80, 48 x 39 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8.5 x 11 128 8 x 12 dot matrix No Std. Std. Std. | 7.5 x 9.25 128 7 x 9 dot matrix No No Opt. Opt. | 7 x 9.5 — 7 x 9 dot matrix No No 2 std. No | Monitor-dependent 96 5 x 9 dot matrix No No No No | 6.5 x 9 128 5 x 9 dot matrix No No 2 No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete | Std. Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Std. Std. U, D, L, R, H Std. Std. Std. Std. Std. Std. Std. Std. | No No U, D, L, R, Rt. No Std. Std. Std. Std. Std. Std. | Up, down std. No U, D, L, R, Rt. No No No No No No No | Up, down std. No U, D, L, R, H, Rt. No Both std. Std. Std. Fwd., next unprot. Std. Std. |
| Erase Character repeat | Char., line, screen std. Std. | Char., line, screen std. Std. | Char., line, screen std. Some keys | No No | Line, screen std. Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter/data | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII Opt. 71 Std. | 128 ASCII No 29 std. Std. | entry console EBCDIC/ASCII No 12 std. Opt. | 128 ASCII Std. No No | 128 ASCII No No Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Single/dual Single/dual Impact Card reader, disk, paper tape punch, audible alarm, ID | No Single/dual Impact — | No No No Audible alarm std., light pen opt. | No No No See comments | No No No See comments |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | card reader Half/full-duplex Async./sync. ASCII/BSC ASCII/BSC See comments Char./block Std. Opt. Opt. RS-232C Opt. Opt. Opt. Opt. | Half/full-duplex Asynchronous ASCII ASCII Up to 19,200 Char./block Std. No No RS-232C, 20mA current loop No | Half/full-duplex Synchronous SDLC; BSC ASCII/EBCDIC 1200-19,200 Block Std. No No RS-232C | Full-duplex Asynchronous Serial ASCII ASCII 110 to 19,200 Character No No No No No No No No No No | Half/full-duplex Asynchronous Serial ASCII ASCII 110 to 9600 Char., line, block std. No No No RS-232C, 20 mA std. No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Third-party lease | Third-party lease 2,150-3,250 1/77 1500 Megadata & third party | 130 110 220 190 3,800 6,050 5/76 Over 25,000 Memorex Microprocessor-based replacement for IBM 3277-2 Display Unit; attaches to Memorex or IBM controller; 25th display line for line and column indicators and systems status | | — — — — — — — — — — — — — — — — — — — |

| SUPPLIER AND MODEL | Micro-Term MIME-I | Mohawk MDS Series 21 | NCR 796 Series Models 101, 301, & 401 | NCR 796-501 | Olivetti TCV-280 System BS-281 & BS-286 |
|---|--|---|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No — Std. Several No | Either 4 No 3270/75, 2260/65 Yes No Yes | Stand-alone 1 No No Std. No No | Stand-alone 1 No No No NO NCR BSC No | Cluster 16 (281); 8 (286) No 3270 BSC & SDLC No No |
| Self diagnostics | No | Std. | No | No | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 480 or 1920 12 x 40/24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6.5 x 9 128 5 x 9 dot matrix No No 2 No | 15-inch diag. 128 7 x 9 dot matrix No Std. Std. Std. Std. | 8 x 10 64; 96 (401) 5 x 7 dot matrix No No 2 std., 301, 401 Std., 301, 401 | 8 x 10; 12-in. diag. 96 5 x 7 No Std., selectable 2 std. Both std. | 15-in. diag. 64 7 x 9 dot matrix No No 2 std. Both std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Up, down std. No U, D, L, R, H, Rt. No Both std. Std. Std. Fwd., next unprot. No Std. Line, screen std. | Std., field only Programmable Programmable U, D, L, R, H, Rt. Std. Std., addressable Programmable Programmable Programmable Programmable Programmable Programmable Programmable | Std | Std. No U, D, L, R, H — Addressable std. Std. Std. Std. Std. Std. Std. Std. S | No No U, D, L, R, H, Rt. Std. Both std. Std. Std. Std. Std. Fwd./ back std. Std. No Char., line, screen |
| Character repeat | Std. | No | Std. | Std. | std. Std. |
| KEYBOARD PARAMETERS Style Character/code set | Typewriter 128 ASCII | Typewriter/data entry 96 EBCDIC | Typewriter ASCII | Typewriter 128 ASCII | Typewriter, data entry ASCII/EBCDIC Std. |
| Detachability Program function keys Numeric keypad | No No Std. (inlaid) | Std. 18 std. Opt. | No — Std. | No Std. | 12 opt. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No No See comments | No 1 std., 3 opt. Impact Magnetic tape, 25 MB cartridge disk, 10 or 20 MB fixed disk | No No Yes Audible alarm std. (101) | No No Impact, non-impact Parallel printer | No No Impact Audible alarm, ID reader, light pen |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Asynchronous Serial ASCII ASCII 110 to 9600 Char., line, blk. std. No No No RS-232C, 20 mA std. | Half/full-duplex Async./sync. BSC/SDLC EBCDIC/ASCII 600-9600 Char., block Opt. Opt. No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./block Std., 301 only No No RS-232C | Half-duplex Synchronous ASCII, BSC ASCII Up to 9600 Line/block Std. No No RS-232C | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block Std. No No RS-232C |
| Integral modem Integral acoustic coupler | No No | No | No | No | No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | | 51-54 48-51 190-232 180-220 1,978-2,131 6,270-7,660 5/77 Over 5,000 stations Mohawk | 80-150 | 155 145 (3-year) — — 3,750 — 8/76 Over 1000 NCR | |
| COMMENTS | Tailors responses to control codes to mimic the ACT-IV, ADM-3A, VT-52, Hazeltine 1500; a serial RS-232C printer port with independent data rate is also std. | Prices include one display unit and controller with one diskette drive; see Report 70D-642-08 for details | Manufactured by ADDS as models 580 (101) and 880A (301) | | The internal controller is capable of supporting up to 16 (281) or 8 (286) Olivetti TCV-287 or other IBM 3277-type terminals |

| SUPPLIER AND MODEL | Olivetti TC 800 | Omron 8030 Series | Ontel OP-1 | Ontel OP-1/R | Ontel OP-1/RW |
|---|--|--|---|--|---|
| TERMINAL DESCRIPTION | | | | | |
| Stand-alone or cluster Maximum displays/controller | Either 16 | Stand-alone | Either 4 | Either 1 | Either |
| Portable case | No | No | No | No | No |
| IBM compatibility Teletype compatibility | 3270/2848/2980 No | No Std. | 3275, 2780 Std. | BSC/SDLC Std. | BSC/SDLC Std. |
| Other compatibility | See comments | Burroughs & Univac | Hazeltine 2000 | See comments | See comments |
| User programmable | Via user-created soft. (assem., PL/1) | Opt. | Yes | Yes | Yes |
| Self diagnostics | Yes | Yes | Yes | Yes | _ |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 260, 480, 1920 10 x 26, 12 x 40, 24 x 80 | 1920 24 x 80 | 1600/1920/2000 20/24/25 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches | 6-/15-in. diag. | 8 x 10 128; 224 opt. | 7 x 10 128/256 | 14-in. diag. 128/256 | 14-in. diag. 128/256 |
| Total displayable symbols Symbol formation | 96; 128 Kata. opt. 5x7, 7x9 dot matrix | 9 x 14 dot matrix | 5 x 10/13 x 11 dot | 5 x 11/9 x 11 dot | 7 x 9/9 x 11 dot |
| Color | No | No | No | No | No |
| Reverse video Programmable brightness levels | No Std. | Std. 2 std. | Std. 2 std. | Std. 2 std. | Std. 4 std. |
| Character and/or field blinking | Both std. | Field std. | Both std. | Both std. | Both std. |
| Roll | Up, down std. | Std. | Up & down std. | Up & down std. | Up, down, horiz. std. |
| Paging Cursor positioning; Up, Down, Left, | Std. U, D, L, R, H, Rt. | Opt., up to 10 pages U, D, L, R, H, Rt. | Yes U. D. L. R. H. Rt. | 4 pages std. U, D, L, R, H, Rt. | 8 pages std. U, D, L, R, H, Rt. |
| Right, Home, Return | 1 | | | | 1 |
| Cursor blinking Addressable/readable cursor | Std. Both std. | Std. Std. | Std. Std. | Std. Std. | Std. Std. |
| Protected format | Std. | Std. | Std. | Std. | Std. |
| Partial screen transmit | Std. Fwd./back std. | Std. Std. | Std. Std. | Std. Std. | Std. Std. |
| Tabulation Character insert/delete | Std. | Std. | Std. | Std. | Std. |
| Line insert/delete | Std. | Std. | Std. | Std. | Std. |
| Erase | Char., line, screen std. | Char., line, screen std. | Char., line, screen std. | Char., line, screen std. | Char., line, screen, block std. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter/data | Teletype | Teletype | Typewriter |
| Character/code set | ASCII, EBCDIC | entry 128 ASCII | ASCII | 256 ASCII | 256 ASCII |
| Detachability | Std. | No 16 std. | Std. 38 std. | Std. 38 std. | Std. 38 std. |
| Program function keys Numeric keypad | 19 std. Std. | Std. | Std. | Std. | Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Sing./dual/maga. Sing./dual/maga. Impact Audible alarm, magnetic stripe & optical char. | No Dual drive RS-232 interface Audible alarm std. | 1 to 4 drives 1 to 4 drives Impact/non-impact Audible alarm std. | Up to 4 drives Up to 4 drives Impact/non-impact Audible alarm | Up to 4 drives Up to 4 drives Impact Audible alarm |
| TRANSMISSION PARAMETERS | readers | | l | | |
| Mode | Half/full-duplex | Half/full-duplex | Half/full-duplex | Half/full-duplex | Half/full-duplex |
| Technique Communications protocol | Async./sync./SDLC Program. (see com.) | Async./sync. ASCII/BSC | Async./sync. opt. ASCII/BSC | Async./sync. BSC/SDLC | Async./sync. BSC/SDLC |
| Code | ASCII/EBCDIC | ASCII/EBCDIC | ASCII/EBCDIC | ASCII/EBCDIC | ASCII/EBCDIC |
| Speed, bits/second Format: character, line, or block | 600 to 9200 Char./block | Up to 9600 Char./block | Up to 2400/9600 Char./block | Up to 9600 Char./block | Up to 9600 Char./block |
| Multipoint operation (pollable/addr.) | Std. | Opt. | Opt. | Std. | Std. |
| Auto answer | Std. No | Opt. No | Opt. No | Opt. Opt. | Opt. Opt. |
| Auto call Terminal interface | RS-232C, 20 mA | RS-232C, 20mA | RS-232C, 20 mA | RS-232C, 20 mA | RS-232C, 20 mA |
| | curr. loop, IPSO | current loop | dc | . | A1- |
| Integral modem Integral acoustic coupler | No No | No No | Opt. No | No No | No No |
| PRICING AND AVAILABILITY | Company versil | Durchas | Sold OFM and | Sold OFM ast | Sold OEM of |
| Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. | Contact vendor for pricing | Purchase only — | Sold OEM only | Sold OEM only — | Sold OEM only — |
| Controller, 1 year lease, \$/mo. | _ ' | _ | - | _ | _ |
| Controller, 2 year lease, \$/mo. Display station, purchase, \$ | _ | 3,100-7,850 (base) | 1,695-5,550 | 1,345-1,870 | 1.595-2.670 |
| Controller, purchase, \$ | | | l — | | _ |
| Date of first production delivery | First qtr. 1976 30,000 | 8/76 Over 500 | 11/74 Over 5,000 | 9/78 Over 1000 | 2/79 |
| Display units installed to date Serviced by | Olivetti | Omron & third | Third party | Third party | Third party |
| · | Can interfere saith | party Uses Intel 8080 | Price based on | IBM-compatible | Word-wrap std., |
| COMMENTS | Can interface with Univac DCT-1000, | microprocessor | quantity of 100; 10- | tape/hard disk in- | down-stream load- |
| | Burroughs B 700, | with 8K to 64K | or 20-megabyte | terface; down- | able or PROM- |
| | NCR 270, and GOL-11 | RAM; contains 4K PROM loader | disk drive; IBM- compatible tape | stream loading or PROM-based; | based; designed for word procesisng; |
| | | | drives available | other compatibili- | other compatibilities |
| | | | 1 | ties include DEC VT-52A, Univac | include DEC VT- 52A, Univac Uni- |
| | | | | Uniscope 200, and | scope 200, and |
| | L | | L | Burroughs TD 800 | Burroughs TD 800 |

| SUPPLIER AND MODEL | Paradyne 7801 CRT Console | Paradyne 7802 Visual Display Unit 77 | Perkin-Elmer Model 1100 | Perkin-Elmer Owl-1200 | Perkin-Elmer Bantam-550 |
|---|---|--|--|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Cluster 15 No No Std. IBM 1052 No | Cluster 6 No Yes No No No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No No |
| Self diagnostics | No | No | No | No | Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8 x 10; 12-in. diag. 64 5 x 7 dot matrix No No No No | 1-2in. diag. 96 ASCII 7 x 11 dot matrix No Std. 2 std. No | 12-inch diag. 128 ASCII 7 x 11 dot matrix No Opt. No No | 12-inch diag. 128 ASCII 7 x 11 dot matrix No Std. 2 std. Std. | 12-inch diag. 128 ASCII 5 x 9 dot matrix No Std., switchable No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Up std. No U, D, L, R, H No Std. addr. only No No No No No Char, screen std. | No No U, D, L, R, H, Rt. No Std. Std. Std. Std. Std. Std. Std. Std. | Up std. No U, D, L, R, H, Rt. Opt. Std. No No Std. No No Char., line, screen | Up std. No U, D, L, R, H, Rt. Opt. Std. Std. Std. Std. Std. Std. Std. Char., line, screen | Std. No U, D, L, R, H, Rt. No Addressable std. No No Fixed tab stops No No Char., screen std. |
| Character repeat | No | std. Std. | std. Std. | std. Std. | Repeat key std. |
| KEYBOARD PARAMETERS | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Style Character/code set Detachability Program function keys Numeric keypad | ASCII No No No | 128 ASCII No 16 std. Std. | 128 ASCII No No Opt. | 128 ASCII No 16 std. Std. | 128 ASCII No No Std., "shadowed" |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No No Audible alarm std., composite video | No No Yes Audible alarm std. | No No Impact/non-impact Audible alarm std. | No No Impact/non-impact Audible alarm std. | No No Via "wye" aux. port Audible alarm opt. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Asynchronous Paradyne SDLC EBCDIC Up to 9600 Char. only No No No RS-232C | Half/full-duplex Asynchronous Paradyne SDLC EBCDIC 75 to 9600 Char./block No No No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 75 to 9600 Char. only No No No RS-232C, CCITT, or 20 mA dc | Half/full-duplex Asynchronous ASCII ASCII 75 to 9600 Char./block Opt. No No RS-232C, CCITT, or 20 mA dc | Half/full-duplex Asynchronous Teletype ASCII 110 to 9600 Character No No No RS-232C std., 20 mA dc opt. |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 134 | | Purchase only | Purchase only | Leases from dealers only — 966 — 12/78 — Perkin-Elmer |
| | an oyacan consule | non oyatem | | | |

Alphanumeric Display Terminals—Management Perspective and Equipment Specifications

| SUPPLIER AND MODEL | NCR 7900 Model 3 | NCR 7901 | Northern Telecom Inc. 294-1B | Northern Telecom Inc. 294C/294-51C/ 296C | Paradyne 9440 |
|---|----------------------------------|----------------------------------|------------------------------------|---|----------------------------------|
| TERMINAL DESCRIPTION | | | | | |
| Stand-alone or cluster Maximum displays/controller | Stand-alone | Stand-alone | Local cluster 32 | Cluster 32/12/8 | Either 3 |
| Transportability | No | No | No | No | No |
| IBM compatibility | No | No | 3274-IB | 3270 BSC/SNA | 1052 |
| Teletype compatibility Other compatibility | Std. | Std. | No — | No — | No |
| DISPLAY PARAMETERS | | | | | |
| Display capacity, no. of chars. Memory capacity, no. char./lines/pages | 2000 | 1920 | 1920, 2560, 3440 | 1920, 2560, 3440 | 1920 |
| Screen arrangement, lines x chars./line | 25 x 80 | 24 x 80 | 24 x 80, 32 x 80, 43 x 80 | 24 x 80; 32 x 80; 43 x 80 | 24 x 80 |
| Screen area, diagonal, inches | 12 | 12 | 15 | 15 | 12 |
| Tilt/swivel screen | No 128 ASCII | Tilt std. 96 ASCII | Tilt std. 96 | Tilt std. 96 | Tilt std. 128 ASCII/EBCDIC |
| Total displayable symbols Symbol formation | 7 x 7 dot matrix | 5 x 7 dot matrix | 7 x 12, 7 x 9 dot | 7x9, 7x12 dot matrix | 7 x 14 dot matrix |
| Character phosphor | P31 green std. | P31 green std. | Green std. | Green std. | P39 green |
| Color capability | No | No | No | No | No |
| Programmable field/char, highlighting via Underline | Std. | Std. | No | No | No |
| Blink | Std. | Std. | No | No | No . |
| Blank | Std. | Std. | No | No | Std. |
| Bold Reverse | No Std. | No Std. | Std. No | Std. No | No No |
| Double size | No | No | No | No | No |
| Scroll | No | No | No | No | Std. |
| Paging Selectable cursor blinking | No Std. | No Std. | No Std. | No Std. | No No |
| Addressable/readable cursor | Both std. | Addressable only | Addressable only | Addressable only | Both std. |
| Protected format | Std. | No | Std. | Std. | No |
| Partial screen transmit Split screen/windows | Std. No | No No | Std. No | Std. No | Std. No |
| Tabulation | Fwd. /back std. | No | Std. | Std. | No |
| Character insert/delete | Std. | No | Std. | Std. | No No |
| Line insert/delete Erase | Std. Char./line/screen | No Screen std. | No Char./screen std. | No Char./screen std. | Std. |
| KEYBOARD PARAMETERS | std. | | | | |
| Style | Typewriter | Typewriter | Typewriter, data | Typewriter, data entry, keypunch | Typewriter |
| Character/code set | 128 ASCII | 96 ASCII | entry, keypunch ASCII/EBCDIC | ASCII/EBCDIC | ASCII |
| Detachability | Opt. | Std. | Std. | Std. | Std. |
| Program function keys | No | No | 24 opt. | 24 opt. | 24 std. |
| Numeric keypad | Std., touch-tone opt. | Std. | Opt. | Opt. | Opt. |
| ANCILLARY DEVICES Serial printer, type and speed | Opt. | Serial interface | Impact, 72-180 cps | Impact, 72-180 cps | Impact |
| Line printer, type and speed | Opt. | No | Belt, 300 lpm | Belt, 300 lpm | No |
| Composite video | No Ont | No Std. | No Opt. | No Opt. | Opt. No |
| Port for cust supplied devices Other vendor-supplied devices | Opt. — | | ID badge reader, light pen opt. | ID badge reader, light pen opt. | Light pen, keylock |
| | | | light pen opt. | riight pen opt. | |
| TRANSMISSION PARAMETERS | | Line of the control of | Holf /full demise | Half/full-duplex | Holf /full devalors |
| Mode Technique | Half/full-duplex Asynchronous | Half/full-duplex Asynchronous | Half/full-duplex Synchronous | Synchronous | Half/full-duplex Asynchronous |
| Technique Communications protocol | ASCII | ASCII | BSC/SDLC | BSC/SDLC | Paradyne SDLC |
| Code | ASCII ' | ASCII | ASCII/EBCDIC 1200-9600 | ASCII/EBCDIC 1200-9600 | ASCII/EBCDIC Up to 19,200 |
| Speed, bits/second Format; character, line, or block | 50-9600 Line/page | 110-19,200 Character | Block | Block | Character |
| Multipoint operation (pollable/addr.) | Both std. | No | Std. | Std. | No |
| Terminal interface | RS-22-C | RS-232-C | RS-232-C | RS-232-C | RS-232-C |
| Integral modem | No No | No No | No No | No No | No No |
| Integral acoustic coupler PRICING AND AVAILABILITY | No | No | 110 | " | |
| Display station, 2-year lease, \$/mo. | 160-166 | _ | - | | 134 |
| Controller, 2-year lease, \$/mo. Display station, purchase, \$ | 3,500-3,670 | 850 | 1,870 | 1,870 | 33 3,000 |
| Controller, purchase, \$ | | i | 8,995 | 6,925/4,250/3,200 | 1,000 |
| Monthly prime-shift maint., \$/mo. | 33 | 15 | <u></u> | 1/02 2/02/204 540 | 27 |
| Date of announcement Date of first production delivery | _ | 2/82 5/82 | 2/82 2/82 | 1/82, 2/82 (294-51C) 2/81, 2/82 (294-51C) | 1/81 |
| Display units installed to date | _ | NCR | NTI | NTI | 200 Paradyne |
| Serviced by | _ | INCH | | | . Gradyric |
| COMMENTS | | | | Models 294C and 294-51C also | |
| | | | | feature display | |
| | | | | capacity of 3564 char. (27 x 132) | |
| - | | İ | | 5.101. (27 × 152) | |
| | | | | | |
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Alphanumeric Display Terminals—Management Perspective and Equipment Specifications

| SUPPLIER AND MODEL | Paradyne 9476 | Paradyne 9478 | Perkin-Elmer 550B/550E | Perkin-Elmer 550S | Perkin-Elmer 1245/1251 |
|---|--|---|---|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Transportability IBM compatibility Teletype compatibility Other compatibility | Either 32 No 3276-looks local No | Either 32 No 3278 No | Stand-alone 1 No No Std. | Stand-alone 1 No No Std. | Stand-alone 1 No No Std. |
| DISPLAY PARAMETERS Display capacity, no. of chars. Memory capacity, no. char./lines/pages Screen arrangement, lines x chars./line Screen area, diagonal, inches Tilt/swivel screen | 1920 — 24 x 80 15 Tilt std. | 1920 — 24 x 80 15 Tilt std. | 1920 80/24/1 24 x 80 12 No | 1920 80/48/2 24 x 80 12 No | 2000 80/24/1 24 x 80 12 Tilt std. |
| Total displayable symbols Symbol formation Character phosphor Color capability Programmable field/char. highlighting via: Underline | P39 green No Std. | 128 ASCII/EBCDIC 8 x 16 dot matrix P39 green No | 128 ASCII 5 x 9 dot matrix P4 white std.; P31 green/amber opt. No | 128 ASCII 5 x 9 dot matrix P4 white std.; P31 green/amber opt. No | 128 ASCII, 32 forms 7 x 11 dot matrix P4 white std.; P31 green/amber opt. No Std. |
| Blink Blank Bold Reverse Double size Scroll Paging | Std. Std. Std. Std. No No No Std. | Std. Std. Std. Std. No No No Std. | No No No No No Up std. No | Std. Std. No Std. No Up/down std. 2 opt. No | Std. Std. No Std. No Up std. No Std. |
| Selectable cursor blinking Addressable/readable cursor Protected format Partial screen transmit Split screen/windows Tabulation Character insert/delete Line insert/delete Erase | Std. Std. Std. No Std. Std. No Std. Std. | Std. Std. Std. No Std. Std. No Std. No Std. | Addressable only No No No Fwd. std. No No Line/screen std. | Both std. Std. No No Fwd/back std. Std. Std. Char./line/screen | Both std. Std. Std. No Fwd./back std. Std. Std. Char./line/screen |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys | Typewriter, data entry, WP ASCII/EBCDIC Std. 24 std. | Typewriter, data entry, WP ASCII/EBCDIC Std. 24 std. | Typewriter 128 ASCII No | std. Typewriter 128 ASCII No 8 std. | Typewriter 128 ASCII Opt. 24/32 opt. |
| Numeric keypad ANCILLARY DEVICES Serial printer, type and speed Line printer, type and speed Composite video Port for custsupplied devices Other vendor-supplied devices | Std. 45/150 letter/dot 300/600 band Opt. Opt. Light pen, keylock | Std. 45/150 letter/dot 300/600 band Opt. Opt. Light pen, keylock | Std. (550E) Thermal, 96 cps Thermal, 180 lpm No Std. | Std. Thermal, 96 cps Thermal, 180 lpm No Std. — | Opt. Thermal, 96 cps No No Std. Light pen |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format; character, line, or block Multipoint operation (pollable/addr.) Terminal interface | Full-duplex Synchronous Paradyne SDLC ASCII/EBCDIC 256KB Block Std. RS-232-C | Full-duplex Synchronous Paradyne SDLC ASCII/EBCDIC 256KB Block No RS-232-C | Half/full-duplex Asynchronous — ASCII 110-9600 Character No RS-232-C; 20mA opt. | Half/full-duplex Asynchronous — ASCII 50-19,200 Char./block No RS-232-C; 20mA opt. | Half/full-duplex Asynchronous — ASCII 110-9600 Char./line/block Std. RS-232-C; 20mA opt. |
| Integral modem Integral acoustic coupler PRICING AND AVAILABILITY Display station, 2-year lease, \$/mo. Controller, 2-year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Monthly prime-shift maint., \$/mo. Date of announcement Date of first production delivery Display units installed to date Serviced by | Opt. No 166 95 5,850 2,500 30 11/80 1/81 400 Paradyne | Opt. No 77 135 3,000 4,000 20 11/80 1/81 1,200 Paradyne | No No No No No No No No No No No No No N | No No Contact vendor Contact vendor | No No Contact vendor Contact vendor |
| COMMENTS | All remote connected devices appear as local channel attached; no need for remote software; Paradyne CRTs use loop technology. | | International character sets/keyboards available. | International character sets/keyboards available. | International character sets/key-boards. |

| SUPPLIER AND MODEL | Perry PE 9000 Series | Phone 1 P1-11 | Phone 1 P1-14 | Plantronics VU Set DS-150C |
|---|--|---|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No No | Either 24 No 3272/3271 Controllers Std. No | Either 24 No 3272/3271 Controllers Std. No | Stand-alone 1 No No Std. No |
| Self diagnostics | No | Std. | Std. | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 480/1280/1920 8 x 60; 16/24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 64/128 4/8 x 16 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 9-/12-inch diag. 64/96 5 x 7 dot matrix No No No Std. (9700) | 12-inch diag. 128 7 x 9 dot matrix No No Std. | 12-inch diag. 128 7 x 9 dot matrix No No Std. No | 3-inch diag. 64 5 x 7 dot matrix No No No No Both std. |
| Roll Paging Cursor positioning, Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Up std. (9900) Opt. (9900) U, D, L, R, H, Rt. Std. Std. address No No No Opt. (9900) Opt. (9900) Screen std. | Up std. No U, D, L, R, H No Both std. Std. Std. Fwd./back tab std. Std. Std. Std. Line, screen std. | Up std. No U, D, L, R, H No Both std. Std. Std. Fwd./back tab std. Std. Std. Std. Std. Std. Std. Std. | No No No No No No No No No No Screen std. |
| Character repeat | Std. (9900) | Std. | Std. | No |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Touch-Tone or alphanumeric |
| Character/code set Detachability Program function keys Numeric keypad | 64/128 ASCII No No Std. | ÁSCII No 32 std. Std. | ASCII No 32 std. Std. | DTMF; 97 ASCII Std. No No |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | RS-232 interface RS-232 interface Impact Audible alarm std. | No No Impact Audible alarm | No No Impact Audible alarm, hand- fed card reader | No No No — |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char./block No No No RS-232C, 20/60 mA dc opt. | Half/full-duplex Async./sync. TTY, BSC ASCII, EBCDIC To 9600 Char./block Std. Opt. No RS-232C Opt. | Half/full-duplex Async./sync. TTY, BSC ASCII, EBCDIC To 9600 Char./block Std. Opt. No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110, 150, 300 Char. only No No No RS232C |
| Integral acoustic coupler | No | Opt. | Opt. | No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Purchase only 975-2,250 7/77 Perry and third party Several models of Cen- | 40 33 415 (3271 compat.) 332 (3271 compat.) 850 8,300 9/76 185 Phone 1 exchange Basic station is TTY | 40 33 415 (3271 compat.) 332 (3271 compat.) 850 8,300 9/76 185 Phone 1 exchange Basic station is TTY | See comments 4/73 4,000 Local telephone co. Leased to user by local |
| | tronics printers are available | compatible; Phone 1 emulation controllers provide for IBM 3271 compatibility | compatible; Phone 1 emulation controllers provide for IBM 3271 compatibility | telephone co. for abou \$30 to \$55 per month unit attaches directly to telephone set or private line |

| SUPPLIER AND MODEL | Quotron Series 800 | Racal-Milgo ICC 40+ Data Display System | Racal-Milgo ICC 40+ MPL Data Display System | Racal-Milgo System 400 | Randal Data Systems RDS 1 |
|--|--|--|---|---|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Cluster 24 No 3270, 2260 Std. No Yes | Stand-alone 1 No 2265 — No No | Stand-alone 1 No No No AT&T #8A1 | Stand-alone 1 No 3275, 2265 No Honeywell, Univac No | Stand-alone 1 No No Std. No |
| Self diagnostics | Std. | Std. | Std. | Std. | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1200/1920 20/24 x 60/80 | 1920 24 x 80 | 1920 24 x 80 | 960/1920 12/24 x 80 | 960/1920 12/24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 48 x 64; 6 x 8 96 14 x 22 dot matrix No Opt. No Opt. | 5.75 x 10.5 127 7 x 11 dot matrix No Std.; cursor only 2 std. Both opt. | 5.75 x 10.5 127 ASCII 7 x 11 dot matrix No Opt. 2 std. Opt. | 5.75 x 10.5 127 ASCII 7 x 11 dot matrix No Std. 3 std. Std. | 6.5 x 8.4 96 ASCII 5 x 7 dot matrix No No 2 std. No |
| Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | No No U, D, L, R, H, Rt. Std., address. only Opt. Opt. Opt. Opt. Opt. Opt. Opt. Char., screen std. | Opt. Opt. U, D, L, R, H, Rt. No Std., address. only Opt. Std. Opt. Std. Std. Std. Char., line, screen std. | Std., up & down U, D, L, R, H, Rt. No Std., address only Opt. Std. Opt. Std. Std. Std. Char., line, screen std. | No No U, D, L, R, H, Rt. No Std., address only Std. Std. Std. Std. Std. Std. Std. Std. | Up std. No U, D, L, R, H, Rt. No Std., address only Std. Std. No No No Char., line, screen std. |
| Character repeat | Opt. | Std. | No | Std. | Std. |
| KEYBOARD PARAMETERS Style | Block/typewriter | Typewriter | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII Std. 10 opt. No | 127 ASCII Std. Opt. No | 127 ASCII Std. No Opt. | 127 ASCII Std. 16 opt. Opt. | 96 ASCII No No Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Single Impact/non-impact Disk, mag tape, printers, card reader, audible alarm | No No Impact Audible alarm std. | No No Impact Audible alarm std. | No No Impact Audible alarm std. | No Single Impact Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. ASCII/BSC/Baudot ASCII/EBCDIC 37.5 to 9600 Char./block Opt. Opt. No RS-232C | Half/full-duplex Async./sync. ASCII ASCII Up to 3600 Char./block Opt. Opt. No RS-232C | Half/full-duplex Asynchronous Bell 8A1 ASCII 1200 to 4800 Char./block Std. Opt. No RS-232C | Half/full-duplex Async./sync. IBM, HIS, Univac ASCII/EBCDIC 50 to 9600 Char./block Std. Opt. No RS-232C | Half/full-duplex Asynchronous ASCII ASCII Up to 9600 Char./block No No No RS-232C |
| Integral modem Integral acoustic coupler | No No | Opt. No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 1,200-1,500 26,975-120,000 9/71 17,000 Quotron Display-oriented minicomputer system; 16-bit processor has 750-nanosecond cycle time | 140-170 125-146 — — 3,750-4,195 — 2/75 Over 500 ICC/Racal-Milgo 40+10 printer is a modified Okidata CP 110; 40+20 printer is a modified GE TermiNet 1200; cal- culator firmware is optional | 161-191 140-161 — — 4,585-5,020 — 2/76 Over 1000 ICC/Racal-Milgo | 135-160 130-155 — 4,455-4,950 — 10/76 Over 2000 ICC/Racal-Milgo Printer prices include buffer and interface | Purchase only |

| SUPPLIER AND MODEL | Randal Data Systems Link 100 | Randal Data Systems Link 200 | Raytheon Data Systems PTS-100 | Raytheon Data Systems PTS-1200 MKI | Raytheon Data Systems PTS-1200 MKII |
|---|--|--|--|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 2 No 3270/3275 BSC Std. No Yes | Either 17 No 3270/3275 BSC Std. No Yes | Either 32 No 3274/6 BSC, 2260/5 Std. Univac, PARS Yes | Cluster 8 · No 3271 BSC,2780,3780 No IBM HASP Yes | Cluster 24 No 3271 BSC,2780,3780 Opt. IBM HASP Yes |
| Self diagnostics | Yes | Yes | Yes | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 960/1920 12/24 x 80 | 960/1920 12/24 x 80 | 480/960/1920 12, 15, 16, 24, 30 | 960/1920 12/24 x 80 | 960/1920 12/24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6.5 x 8.4 96 ASCII 5 x 7 dot matrix No No 2 std. No | 6.5 x 8.4 96 ASCII 5 x 7 dot matrix No No 2 std. No | lin. 7 x 10 64; 96 opt. 7 x 7/9 dot matrix No No 2 std. Both std. | 15-inch diag. 96 7 x 9 dot matrix No No 2 std. Std. | 15-inch diag. 96 7 x 9 dot matrix No No 2 std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, | Up std. Std. U, D, L, R, H, Rt. | Up std. Std. U, D, L, R, H, Rt. | — No U, D, L, R, H, Rt. | Std., up & down Std. U, D, L, R, H, Rt. | Std., up & down Std. U, D, L, R, H, Rt. |
| Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | No Std., address. only Std. Std. No Opt. Opt. Char., line, screen std. Std. | No Std., address. only Std. Std. No Opt. Opt. Char., line, screen std. Std. | Std. Std. Std. Std. Std. Std. Std. Std. | Std. Both std. Std. Std. Std. Std. Std. Std. Std. Char., line, screen std. Std. | Std. Both std. Std. Std. Std. Std. Std. Std. Std. S |
| KEYBOARD PARAMETERS | Tymovagritor | Typewriter | Typewriter/data | Typewriter/data | Typewriter/data |
| Style Character/code set Detachability Program function keys Numeric keypad | Typewriter 96 ASCII No 16 std. Std. | 96 ASCII No 16 std. Std. | entry 96 ASCII/EBCDIC Std. 12 std. Opt. | 96 ASCII/EBCDIC Std. 12 std. Std. | entry 96 ASCII/EBCDIC Std. 12 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No 2-4 drives Impact Card reader, disk, mag. tape, audible alarm | No No Impact Card reader, disk, mag. tape, audible alarm | 4 drives max. No Impact Disk, card reader, audible alarm, ID reader, line printer | Single No Impact Disk, card reader, ID reader, audible alarm, line printer, mag. tape | Single No Impact Disk, card reader, ID reader, audible alarm, line printer, mag, tape |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Full-duplex Async./sync. BSC ASCII Up to 9600 Char./block No Opt. No RS-232C | Full-duplex Async./sync. BSC ASCII Up to 9600 Char./block No Opt. No RS-232C | Half/full-duplex Async./sync. BSC/PARS/U 100 ASCII/EBCDIC Up to 9600 Block only Std. Opt. No RS-232C, CCITT V.24 | Half/full-duplex Synchronous BSC ASCII/EBCDIC Up to 14,400 Block Opt. No No RS-232C | Half/full-duplex Synchronous BSC ASCII/EBCDIC Up to 19,200 Block Opt. No No RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | Purchase only | Purchase only | 51 46 116-391 104-351 2,030 5,710-13,950 9/72 65,000 (all models) Raytheon | 51 46 631 568 2,030 23,120 6/78 See PTS-100 Raytheon | 51 46 1,010 911 2,030 37,055 6/78 See PTS-100 Raytheon |
| COMMENTS | | | Alternate display formats are 15/30 x 64. Number of units installed in- cludes PTS-100 and PTS-200 | Controller price in- cludes 64K memory & 10-megabyte disk expandable to 40 megabytes of useable storage | Controller price in- cludes 64K memory & 10-megabyte disk expandable to 250 megabytes of useable storage |

| SUPPLIER AND MODEL | SLM, Inc. VT48 | Soroc IQ 120 | Soroc IQ 140 | Sycor 251 | Sycor 255 |
|---|---|--|--|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 4 No No Yes No Yes | Stand-alone 1 No No Std. No No | Stand-alone 1 No No Std. No No | Cluster 32 No 3270 No No No | Stand-alone 1 No 3275 No No Yes |
| Self diagnostics | Yes | No | No | Yes | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 3840 48 x 80 | 1920 24 x 80 | 1920 24 x 80 | 480/1920 12 x 40; 24 x 80 | 480/1920 12 x 40; 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 15-inch diag. 256 5 x 7 dot matrix 4 shades gray Std. Std. Std. | 12-inch diag. 96 5 x 9 dot matrix No No 2 std. No | 12-inch diag. 96 5 x 9 dot matrix No Std. 2 std. Std. | 4.5 x 8.2; 5.8 x 8.5 64; 96 opt. 9 x 7 dot matrix No No 2 std. Field std. | 4.5 x 8.2; 5.8 x 8.5 64; 96 opt. 9 x 7 dot matrix No No 2 std. Field std. |
| Roll Paging Cursor positioning: Up, Down, Left, | Std. 4 pages opt. U, D, L, R, H, Rt. | Std., up only No U, D, L, R, H, Rt. | Std., up only No U, D, L, R, H, Rt. | No No U, D, L, R, H, Rt. | No No U, D, L, R, H, Rt. |
| Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std. Std. Std. Opt. Std. Std. Std. Std. Std. | No Std., address only Std. Std. Std. No No Line, screen std. | Std. Both std. Std. Std. Std. Std. Std. Std. Line, screen std. | Std. Std. Std. Std. Std. Std. No Char., screen std. | Std. Std. Std. Std. Std. Std. No Char., screen std. |
| Character repeat | Std. | Std. | Std. | Partial | Partial |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter 96 ASCII | Typewriter 96 ASCII | Typewriter/data entry ASCII/EBCDIC | Typewriter/data entry |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII/128 spec. No 23 std. Std. | No No Std. | Std. 16 std. Std. | Std. 12 opt. Opt. | ASCII/EBCDIC Std. 12 opt. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Single Single ∕dual RS-232 interface No | No No No | No No No — | No Dual Impact Audible alarm, ID card reader std. light pen opt. | No Dual Impact Audible alarm, ID card reader std. light pen opt. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. ASCII ASCII 110 to 19,200 Char./block Std. Opt. RS-232C | Half/full-duplex Asynchronous ASCII 75 to 19,200 Char./block No No No RS-232C, 20 mA current loop | Half/full-duplex Asynchronous ASCII ASCII 110 to 19,200 Char./block Opt. No No No RS-232C, 20 mA current loop | Half-duplex Synchronous BSC ASCII/EBCDIC 1200 to 4800 Block only Std. Yes No RS-232C | Half-duplex Synchronous BSC ASCII/EBCDIC 1200 to 4800 Block only Std. Yes No RS-232C |
| Integral modem Integral acoustic coupler | Opt. Opt. | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | | Purchase only 995 11/76 10,000 Soroc | Purchase only 1,495 8/78 500 Soroc | 37 30 133 113 3.420 4.330 10/73 Over 13,000 Sycor & Sorbus | 113 83 4,730 10/73 Over 13,000 Sycor & Sorbus |
| COMMENTS | Optional vector graphics, 480 x 512 resolution program- mable; memory expansion to 64K, BASIC, PASCAL available | | | | • |

| SUPPLIER AND MODEL | Sycor 258 | Sycor 291 | Sycor 296 | Sycor 340 | Sycor 350 |
|---|--|--|--|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 24 No 3270/3275 BSC No No Yes | Cluster 16 No 3270 BSC/SDLC No No | Cluster 8 No 3270 BSC/SDLC No No | Stand-alone 1 No No Std. No | Stand-alone 1 No 2770, 2780, 3780 Std. No Yes |
| Self diagnostics | Yes | Std. | Std. | No | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 480/1920 12 x 40; 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 578 9 x 64 | 576 9 x 64 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | | 15-inch diag. 64; 96 9 x 7 dot matrix No No 2 std. No | 15-inch diag. 64; 96 9 x 7 dot matrix No No 2 std. No | 7.75 x 5.5 62 5 x 7 dot matrix No No No No | 9 x 9 64 ASCII 5 x 7 dot matrix No No No Char. std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete | No No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. No | Std. Std. Std. Std. No | No No U, D, L, R, H, Rt. Std., addressable only Std. Std. Std. Std. No | Std. Std. Std. No No | No No U, D, L, R, H, Rt. Std. No Std. No No No |
| Erase | Char., screen std. | Char., screen std. | Char., screen std. | Char., screen std. | Std. |
| Character repeat KEYBOARD PARAMETERS | Partial | Std. | Std. | No | No |
| Style Character/code set Detachability Program function keys Numeric keypad | Typewriter/data entry ASCII/EBCDIC Std. 12 opt. Opt. | Typewriter/data entry/keypunch ASCII/EBCDIC Std. 12 opt. Opt. | Typewriter/data entry/keypunch ASCII/EBCDIC Std. 12 opt. Opt. | Typewriter ASCII/EBCDIC No Yes Std. | Typewriter/data entry ASCII/EBCDIC Std. — Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Dual Impact Audible alarm, ID card reader std. light pen opt. | No No Impact ID card reader & light pen opt. | No No Impact ID card reader & light pen opt. | Single/dual Dual Impact Card reader, line printers, 7-/9-tk, mag, tape units, audible alarm | No 1 or 2 dual Impact Card reader, line printers, mag. tape, audible alarm |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half-duplex Synchronous BSC ASCII/EBCDIC 1200 to 4800 Block only Std. Opt. No RS-232C | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block only Std. No No RS-232C | Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block only Std. No No RS-232C | Half-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 75 to 4800 Char./block No Opt. Opt. RS-232C opt. | Half-duplex Async./sync. BSC ASCII/EBCDIC 110 to 4800 Char./block No Std. Std. RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 37 30 185 94 3,420 6,250 10/73 Over 13,000 Sycor & Sorbus | 56 45 269 214 2,700 11,530 12/77 — Sycor | 56 45 167 135 2,700 7,520 12/77 — Sycor | 150-593 123-536 — 6,600-23,720 — 2/71 Over 32,000 Sycor & Sorbus | 225-809 203-670 Included — 9,600-26,100 — 9/75 Over 1700 Sycor & Sorbus |
| COMMENTS | | | | See Report 70D-792-01 for details on the Sycor line of intelligent data entry terminals | |

| SUPPLIER AND MODEL | Sycor | Sycor | Sycor | Sycor | Sycor |
|--|---|---|---|---|--|
| | 351 | 405 | 410 | 440 | 445 |
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable Self diagnostics | Stand-alone 1 No 2770, 2780, 3780 Std. No Yes | Cluster 2 No 2770, 2780, 3780 Std. — Std. via TAL 2000, BASIC & COBOL Std. | Stand-alone 1 No 2770, 2780, 3780 Std. No Yes Std. | Either 8 No 2770, 2780, 3780 Std. IBM 360/20 Yes Std. | Cluster 8 No 2770, 2780, 3780 Std. IBM 360/20, 3270 Std. via TAL 2000, BASIC & COBOL Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 576 | 2000 | 576 | 576 | 2000 |
| | 9 x 64 | 25 x 80 | 9 x 64 | 9 x 64 | 25 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 9 x 9 | 7.75 x 10.4 | 7 x 9.5 | 7 x 9.5 | 7.75 x 10.4 |
| | 64 ASCII | 64; 96 | 64 ASCII | 64 ASCII | 64; 96 |
| | 5 x 7 dot matrix | 7 x 12 dot matrix | 5 x 7 dot matrix | 5 x 7 dot matrix | 7 x 12 dot matrix |
| | No | No | No | No | No |
| | No | No | No | No | No |
| | No | Std. | 3 opt. | 3 opt. | Std. |
| | Char. std. | Std. | Char. std. | Char. std. | Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | No No U, D, L, R, H, Rt. Std. No Std. No No No No No Std. | No No JU, D, L, R, H, Rt. Std. Std. Std. No No No Std. | No No U, D, L, R, H, Rt. Std. No Std. No Std. No No No Std. | No No U, D, L, R, H, Rt. Std. No Std. No Std. No No Std. | No No U, D, L, R, H, Rt. Std. No Std. Std. Std. No No No Std. |
| Character repeat | No | Std. | No | No | Std. |
| KEYBOARD PARAMETERS | Typewriter/data | Typewriter/data | Typewriter/data | Typewriter/data | Typewriter/data |
| Style | entry | entry | entry | entry | entry |
| Character/code set | ASCII/EBCDIC | 128 ASCII | 64 ASCII | 64 ASCII | 128 ASCII |
| Detachability | Sid. | Std. | — | — | Std. |
| Program function keys | — | 10 std. | 23 std. | 23 std. | 10 std. |
| Numeric keypad | Std. | Std. | Std. | Std. | Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No | No | Single | Single | Single drive |
| | 1 or 2 dual | 2 or 4 drives | Single | Single | Single drive |
| | Impact | Impact | Impact | Impact | Impact |
| | Card reader, line | Line printer & | Card reader, line | Card reader, line | Disk drives, line |
| | printers, mag tape, | 9-tk. mag. tape | printers, mag. tape, | printer, mag. tape, | printers, & 9-tk. |
| | audible alarm | drive | audible alarm | audible alarm | mag. tape drive |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half-duplex Async./sync. BSC ASCII/EBCDIC 110 to 4800 Char./block No Std. Std. RS-232C | Half/full-duplex Async./sync. BSC/SDLC ASCII/EBCDIC Up to 9600 Block No Std. Opt. RS-232C | Half-duplex Async./sync. BSC ASCII/EBCDIC 110 to 9600 Char./block No Std. Opt. RS-232C | Half-duplex Async./sync. BSC ASCII/EBCDIC 110 to 9600 Char./block No Std. Opt. RS-232C | Half/full-duplex Async./sync. BSC/SDLC ASCII/EBCDIC Up to 9600 Block No Std. Opt. RS-232C (2) |
| Integral modem | No | Opt. | No | No | Opt. |
| Integral acoustic coupler | No | No | No | No | No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 400-917 ———————————————————————————————————— | 72 | 517-842 — Included — 22,800-34,200 Included 7/76 1200 Sycor & Sorbus | 36-40 | 54 |
| | · | memory & Sycorlink | | | 64K- to 256K- byte memory, 5 to 308 megabytes of disk, & Sycorlink |

| SUPPLIER AND MODEL | Systematics General T5101 Tempest CRT | Systematics General T5145 Tempest CRT | Systematics General T5175 Tempest Plug-to-Plug | Systematics General T5177 Tempest Plug-to-Plug | Tano Outpost 7 |
|---|--|--|---|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. Opt. No | Stand-alone 1 No No Std. Opt. Std. via user program | Stand-alone 1 No 3275 No No No | Cluster display only 32 No 3277 No No No | Stand-alone 1 No No 33/35, 40 Yes Yes |
| Self diagnostics | No | No | No | No | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-inch diag. 128 ASCII 5 x 9 dot matrix No No 2 std. Std. | 127mm. x 254 mm. 128 ASCII 7 x 9 dot matrix No Std. 3 std. Std. | 12-inch diag. 128 ASCII 5 x 9 dot matrix No No 2 std. Std. | 12-inch diag. 128 ASCII 5 x 9 dot matrix No No 2 std. Std. | 12-inch diag. 128 7 x 9 dot matrix No Std. 2 std. Both std. |
| Roll Paging Cursor positioning; Up, Down, Left, | Up std. No U, D, L, R, H, Rt. | Up, down std. 3 pages opt. U, D, L, R, H, Rt. | No Opt. U, D, L, R, H, Rt. | No Opt. U, D, L, R, H, Rt. | Std., up & down Std. U, D, L, R, H, Rt. |
| Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | No Both std. Std. Std. Fwd./back std. Std. Std. Char., line std. | Std. Both std. Std. Std. Std. Std. Std. Std. Std. Char., line, screen | No Both std. Std. Std. Fwd./back std. Std. Std. Char., line std. | No Both std. Std. Std. Fwd./back std. Std. Std. Char., line std. | Std. Std. Std. Std. Std. Std. Std. Std. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter | Typewriter/data entry |
| Character/code set Detachability Program function keys Numeric keypad | 128 ASCII Std. 32 std. Std. | 64 ASCII Std. 8 std. Std. | 128 ASCII/EBCDIC Std. 12 std. Std. | 128 ASCII/EBCDIC Std. 12 std. Std. | ASCII/EBCDIC No 10 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Impact opt. — | Dual drive opt. No Impact opt. Graphics | No No Impact opt. | No No Impact opt. — | Single/dual RS-232C interface Audible alarm std., ID card reader opt. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Block Opt. No No RS-232C, Mil. Std. 188C No | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./line/block Opt. No No RS-232C, Mil Std. 188C | Half/full-duplex Asynchronous ASCII ASCII 2400 to 4800 Block Std. No No RS-232C, Mil. Std. 188C No | Half/full-duplex Asynchronous ASCII ASCII 2400 to 4800 Block Std. No No | Half/full-duplex Async./sync. ASCII/EBCDIC ASCII/EBCDIC 110 to 9600 Char./line/page Yes No No RS-232C or 20 mA dc |
| Integral modem Integral acoustic coupler | No | No No | No | No | No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | Contact vendor 4,950 1/76 Self & third party | Contact vendor | Contact vendor 6,300 12/77 Self & third party | Contact vendor 5,500 6/77 Self & third party | 213 2,660-3,240 4/77 250 Tano & third party |
| COMMENTS | Tempest CRT's are tested to meet the Tempest criteria of NACSEM 5100 | Utilizes Hewlett- Packard 2600 family of CRT's; tested to meet Tempest criteria of NACSEM 5100 | See T5101 comments | See T5101 comments | Terminals are avail- able with APL and extended ANSI BASIC |
| | | | | | |

| SUPPLIER AND MODEL | Tano Outpost II | Taumark Tera System Handheld Terminal | TEC, Inc. Model 70 | TEC, Inc. Models 410/415, 420/425, & 430/435 | TEC, Inc. Model 440 |
|--|---|--|--|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable Self diagnostics | Stand-alone 1 Yes (60 lbs.) No Yes Any serial ASCII host Yes, via BASIC-II, STRUBAL, or assem. Yes (0PX-I program) | Radio network cluster 250 Yes 3270 BSC Std. (controller) To customer reqs. On custom systems | Stand-alone 1 No No Std. See comments No No | Stand-alone 1 No No No No No No | Stand-alone 1 No No Std. No No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 64 4 x 16 | 2000 25 x 80 | 1000/1920 20 x 50; 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 12-in. diag. 128 ASCII 5 x 7, 7 x 9 No Std. 2 std. Both std. | 2.5 x 3.62 64 ASCII std. 5 x 7 dot matrix No No No No | 6 x 9 126 ASCII 7 x 9 dot matrix No Opt. Opt. Opt. | 6 x 9 64 5 x 7 dot matrix No Opt. No Std. | 6 x 9 64 5 x 7 dot matrix No No No No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std., up & down 2 pages std. U, D, L, R, H Std. Both std. Std. Std. 5-space fwd. tab std. No No Char., line, screen | Up, down std. 1920-char. buffer opt. Right, left, line advance No Addr. std., read. opt. 16 one-line formats std Std. No No No Char., line, screen | Opt. Opt. Opt. Opt. Opt. Char., screen std., | Std. No U, D, L, R, H, Rt. Std. Std. No Std. Std. Std. Std. Line, screen std. | Std. No Rt., LF, BS Std. No No No No No No No Char., screen std. |
| Character repeat | std. Normal and fast | std. No | line opt. Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Typewriter 96 ASCII No No | 40-key alphanumeric std., others opt. 64 ASCII std: No Opt. | Typewriter, TTY 128 ASCII Std. 8 std. | Teletype 64 ASCII Std. No | Teletype 64 ASCII Std. No |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Std. No 1 std. + 1 opt. Opt. serial interface Audible alarm std. | Std. No No No No Bar code reader, A/D probe, audible alarm, battery-low indicator | Opt. — Single Impact, non-impact Magnetic stripe card reader; audible alarm std. | Opt. No No RS-232 interface Audible alarm std. | No No No RS-232 interface Audible alarm std. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem | Half/full-duplex Software for async. ASCII ASCII 110 to 9600 Char., line, block Std. Opt. Opt. RS-232C or 20 mA | Half/full-duplex Async., sync., bisync. ASCII std., BSC opt. ASCII std., EBCDIC opt. 600 to 50K (controller Block Std. (terminals) No No RS-232C, 20mA (controller) Std. (terminal) | Half/full-duplex Async. std., sync. opt. See comments ASCII 50-9600 Char./line, blk. opt. Opt. No No RS-232C, TTL std.; 20/60 mA dc opt. | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Block only Std. (420/425) No No RS-232C, 20/60 mA dc | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char. only No No No RS-232C, 20/60 mA dc |
| Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | No | No Lease through third party | No | No Purchase only | Purchase only |
| COMMENTS | | line comm. via FM radio bwtn. mobile personnel & base station controller, which controls network & converts radio protocol to acceptable digital format for host computers | Uniscope; rack- mount AVA | have parallel (TTL logic) interface; 420/425 have serial interface; rack-mounted units available | |

| SUPPLIER AND MODEL | TEC, Inc. Models 450/455 & 460/465 | TEC, Inc. Model 500 | TEC, Inc. Model 570 | TEC, Inc. Models 1401, 1440, 1445, 2401, & 2402 | Tektronix 4024 |
|--|--|--|--|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. (450/455) No | Stand-alone 1 No No Std. ADM 3A No | Stand-alone 1 No No Std. No Via user-defined | Stand-alone 1 No No Std. No | Stand-alone 1 No Std. No No |
| Self diagnostics | No | No | firmware Std. | No | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1000/1920 20 x 50; 24 x 80 | 2000 25 x 80 | 2000 25 × 80 | 960 (1401) 1920 12/24 x 80 | 2720 34 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6 x 9 64 5 x 7 dot matrix No No No Std. | 6 x 9 126 ASCII 7 x 9 dot matrix No Std. No No | 6 x 9 128 ASCII 6 x 8 No Std. Std. Std. | 6 x 9 64/96/128 5 x 7 dot matrix No No 2 std.; 1401 & 240x Std.; 1401 & 240x | 6.7 x 9 64/96; 128 opt. 7 x 9 dot matrix No No 2 std. Both std. |
| Roll Paging Cursor positioning: Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Erase | Std. No U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Up std. No U, D, L, R, H, Rt. Std. Both std. No No No No No No No No | Up std. 3 pages opt. U, D, L, R, H, Rt. Std. Both std. Std. Std. Std. Std. Std. Std. Std. S | Std. No U, D, L, R, H, Rt.; LF, BS (1440) Std. Std.; 1401 & 240x Std.; 1401 & 240x Std.; 1401 & 240x Std.; 1401 & 240x No No Std.; 1401 & 240x No No Screen std. | Std. Std. U, D, L, R, H, Rt. No Yes Yes Std. Std. Std. Std. Std. Std. |
| Character repeat | Std. | Yes | std. Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | TTY/typewriter | Teletype | Typewriter | Teletype | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII Std. None Std., opt., 450/455 | 128 ASCII No No Opt. | 128 ASCII Opt. 7 std. Opt. | ASCII Std. None Opt. | 128 ASCII Std. 12 Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Single RS-232 interface Audible alarm std. | Single Impact, non-impact — | No Single Non-impact, impact — | RS-232 interface No RS-232 interface Audible alarm std. | No No Impact (4642) 4631 Hard Copy Unit, 4924 Cartridge Tape Drive, 4662 Plotter |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half/full-duplex Asynchronous ASCII/Burroughs ASCII 110 to 9600 Char./block Std., 460/465 No No RS-232C, 20/60 mA dc No | Half/full-duplex Asynchronous ASCII 50-9600 Char. No No RS-232C, TTL, 20/60 mA dc opt. No | Half/full-duplex Asynchronous TTY ASCII 50 to 19,200 Char., line, block No No No RS-232C, TTL, 20/60 mA std. No | Half/full-duplex Asynchronous ASCII ASCII 110 to 9600 Char./block No No No RS-232C, 20/60 mA dc No | Half/full-duplex Asynchronous ASCII 50 to 4800 Block Opt. No No RS-232C, 20 mA current loop No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Purchase only | Purchase only — — — — — — — — — — — — — — — — — — — | Purchase only 1,115-1,425 3/79 100 TEC | Purchase only 1,125-1,725 11/74 to 4/75 7000 TEC Model 2402 is a | Purchase only |
| | Models 460/465 offer Burroughs TD 800 polling protocol | | | 2401 with lower case alphabetics | line drawing characters |

| SUPPLIER AND MODEL | Tektronix 4025 | Teleram P1888 | Teleram 2277 | Teleray 1061 | Teleray 3541 |
|---|---|---|---|--|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No Std. No No No | Stand-alone 1 Yes (22 lbs.) No Std. See comments Yes | Either 15 Transportable (35 lbs.) Programmable Opt. Most minicomputers Via user-defined barameters | Stand-alone 1 No No Std. DEC VT-52 Via user-defined parameters | Stand-alone 1 No No Std. No No |
| Self diagnostics | Yes | Yes | Opt. | — — | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 2720 34 x 80 | 884 17 x 52 | 1840 23 x 80; one status line | 1920 24 x 80; 24 x 40 (oversize) | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6.7 x 9 64/96; 128 opt. 7 x 9 dot matrix No Std. 2 std. Both std. | 4.5 x 5.5 128; second set opt. 7 x 9 dot matrix No Yes Yes Yes | 7.2 x 9.6; 12-in. diag. | 6.5 x 8.5 96 + 32 control codes 7 x 9 dot matrix No Std. Std. Std. | 6.5 x 8.5 64 5 x 7 dot matrix No Opt. No No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std. Std. U, D, L, R, H, Rt. No Yes Yes Std. Std. Std. Std. Std. Std. Std. | Up, down std. Unlimited pages U, D, L, R, H, Rt. No Std. Yes Std. Std. Std. Std. Std. Std. Char., word, text area std. | Up, down std. Unlimited pages U, D, L, R, H, Rt. Opt. Std. Opt. Std. Fwd. std.; back opt. Std. Std. Std. Char., word, text area std. | Up, std. No U, D, L, R, H, Rt. Std. Both std. Std. Std. Std. Std. Std. Std. Std. S | Up std. No D, L, R, H, Rt. No No No Opt. No No Screen std. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Typewriter 128 ASCII Std. 12 Std. | Typewriter 128 ASCII Yes No | Typewriter 128 ASCII Opt. Up to 10 opt. Opt. | Typewriter, N-key rollover 128 ASCII Std. | Teletype ASCII Opt. No Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Impact (4642) 4631 Hard Copy Unit, 4924 Cartridge Tape Drive, 4662 Plotter | Yes Yes Yes Through RS-232C interface | Single Single built-in Impact, non-impact Line pinters, modem, tape punches, etc. | No Single opt. Impact opt. Audible alarm std. | No Single drive Impact TV monitors, audible alarm |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface !ntegral modern Integral acoustic coupler | Half/full-duplex Asynchronous ASCII ASCII Up to 9600 Block Opt. No No RS-232C, 20 mA current loop No | Half/full-duplex Asynchronous ASCII ASCII, TTS, BAUDOT 110 to 1200 Block Std. Std. Opt. RS-232C Yes Std. | Half/full-duplex Asynchronous ASCII ASCII Selec., 110 to 9600 Char., line, block Std. Std. Opt. RS-232C Opt. Std. | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char.to block—G levs No Std. No RS-232C; current loop opt. No | Half/full-duplex Asynchronous ASCII 50 to 9600 Char. only No No No RS-232C, TTL, or 20 mA dc Opt. |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | Purchase only 3,595 (base) Tektronix Has 4K to 32K memory; can have 6 | Purchase only 5,495 10/74 Teleram, GE 216K char. cassette | Purchase only | 79 71 1,090 (list) 9/78 1800 Teleray 115/230V,50/60 Hz, std.; wide/narrow | 65 62 — 1,150 — 7/76; 1/75 (3511) Over 8000 Western Union Rack mount, remote monitors, and other |
| | char. sets; up to 31 char. sets with Graphics option | storage; 16 x 13 x 7 in, size; compatible with all ASCII com- puter systems and de- vices which accept EIA std. inputs | virtual soroll allows variable-length inputs up to 14,000 words; automatically ac- quired directory dis- plays all items re- corded on diskette | char. display, secure fields (blanking); in- dependent I/O and peripheral speeds; 3K ROM, 4K RAM mem- ory & snap-in mod- ules; no-tools ser- vicing; plug-in IC's | customs available; also bar code readers, cluster printer config., and other peripheral attachments |

| SUPPLIER AND MODEL | Teleray 3 74 1 | Teleray 3841 | Teleray 3931 | Teleray 4041 | Teleray 4041 BB |
|---|--|--|--|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No | Stand-alone 1 No No No Burroughs |
| Self diagnostics | No | No | No | Std. | Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 3840; others opt. 24 x 80 | 3840; others opt. 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6.5 x 8.5 95; 64 opt. 5 x 9 dot matrix No Opt. No | 6.5 x 8.5 95; 64 opt. 5 x 9 dot matrix No Opt. No No | 8 x 10 95 ASCII/APL std. 5 x 9 dot matrix No Opt. No No | 6.5 x 8.5 95; 64 opt. 5 x 9 dot matrix No Std. 2 std. Std. | 6.5 x 8.5 95; 64 opt. 5 x 9 dot matrix No Std. 2 std. Both std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Up std. No D, L, R, H, Rt. No No No Opt. No No Screen std. | Up std. 1 std. U, D, L, R, H, Rt. Opt. Std. addressable only No No Opt. No No Char., line, screen | Up std. No D, L, R, H, Rt. No No No No Std. No No Screen std. | Std., up & down 2 std.; 8 opt. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Std. 2 std.; 8 opt. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St |
| Character repeat | Std. | std. Std. | Std. | memory std. Std. | memory std. Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewrtier | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII Opt. No Opt. | ASCII Opt. No Opt. | ASCII/APL Opt. No Opt. | ASCII Opt. 30 opt. Opt. | Burroughs Poll Opt. 15 opt. Opt. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Single drive Impact TV monitors, audible alarm No Single opt. Impact — |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem Integral acoustic coupler | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char. only No No No RS-232C, TTL, or 20 mA dc Opt. | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char. only No No No RS-232C, TTL, or 20 mA dc Opt. | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char. only No No No R5-232C, TTL, or 20 mA dc Opt. | Half/full-duplex Asynchronous ASCII ASCII 50 to 9600 Char./block No No No R5-232C, 20 mA dc opt. Opt. | Half/full-duplex Asynchronous Burroughs Burroughs 50 to 9600 Char.,line,block,mem Std. No No RS-232C; 20 mA dc, two-wire direct opt. No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 72 69 1,250 1/77; 7/74 (3711) Over 8000 Western Union | 81 77 1,350 1/77; 4/76 (3811) Over 8000 Western Union | 109 104 — 1,690 — 3/75 Over 8000 Western Union | 73 w/o maint. 69 w/o maint. | 81 w/o maint. 76 w/o maint. — — 1,950 — 1/78 Over 8000 Western Union |
| COMMENTS | | | Composite video and peripheral port standards; optional on other models | Memory is com- posed of 3K to 6K ROM and 2K to 16K RAM | BB signifies Burroughs compati- bility |

| SUPPLIER AND MODEL | Teletype Model 40/1 | Teletype Model 40/2 | Teletype Model 40/3 | Teletype Model 40/4 | Teletype Model 4540 Series |
|---|---|---|--|---|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No No Std. No | Stand-alone 1 No No Std. No No | Stand-alone 1 No No No No No | Either 1, 2, or 24 No 3270 BSC No No No | Either 1 to 32 No 3270 BSC No No No |
| Self diagnostics | Std. | Std. | Std. | Std. | Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 5.25 x 11.25 127 7 x 9 dot matrix No No 2 opt. Std., char. only | 5.25 x 11.25 127 7 x 9 dot matrix No No 2 opt. Std., char. only | 5.25 x 11.25 127 7 x 9 dot matrix No No 2 opt. Std., char. only | 5.25 x 11.25 127 7 x 9 dot matrix No No 3 std. Field std. | 5.25 x 11.25 127 7 x 9 dot matrix No No 3 std. Field std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std., up & down Opt., 2/3 pages U, D, L, R, H, Rt. No No Opt. Std. Opt. Std. Std. Std. Std. | Std., up & down Opt., 2/3 pages U, D, L, R, H, Rt. No No Opt. Std. Opt. Std. Std. Std. Streen std. | Std., up & down Opt., 2/3 pages U, D, L, R, H, Rt. No No Opt. Std. Opt. Std. Std. Std. Char., line, screen std. | No No U, D, L, R, H, Rt. Opt. Std. Std. Std. Yes Std. Std. Std. Std. Std. | No No U, D, L, R, H, Rt. Opt. Std. Std. Yes Std. Std. Std. Std. Std. Screen std. |
| Character repeat | Partial | Partial | Partial | Partial | Partial |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Typewriter | Typewriter, data entry | Typewriter, data |
| Character/code set Detachability Program function keys Numeric keypad | 127 ASCII No No No | 127 ASCII No No No | 127 ASCII Std. No No | 96 ASCII/EBCDIC Opt. 12 std. Opt. (typewriter keyboard onl;) | entry 96 ASCII/EBCDIC Opt. 12 std. Opt. (typewriter keyboard only) |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Impact Audible alarm std. | No No Impact Audible alarm std. | No No Impact Audible alarm std. | No No Impact Audible alarm std. | No No Impact Audible alarm std., magnetic stripe reader opt. |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half-duplex Asynchronous ASCII ASCII 1050/1200 Line/block No Std. No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110 to 4800 Block/char. No Std. No RS-232C or 20/60 mA dc | Half-duplex Asynchronous ASCII ASCII 1050/1200 Block only Std. No RS-232C | Half-duplex Synchronous BSC ASCII/EBCDIC 2400/4800/9600 Block only Std. No RS-232C | Half-duplex Synchronous BSC ASCII/EBCDIC 2400/4800/9600 Block only Std. No RS-232C |
| Integral modem Integral acoustic coupler | No | No | No | No | No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | Purchase only | Purchase only 3,214-3,881 10/73 Teletype & Bell | Purchase only | Purchase only | Purchase only 2,200-2,550 3,775-5,464 3/79 Teletype & Bell |
| COMMENTS | For use on the dial network (DDD); also available from AT&T (Bell System) as Dataspeed 40, and from leasing companies | For use on the dial network (DDD); also available from AT&T (Bell System) as Dataspeed 40, and from leasing companies | For multipoint leased-line opera- tion; also available from AT&T (Bell System) as Data- speed 40, and from leasing companies | Dataspeed 40/4; | for connection up to 5000 feet from controller to display |

| SUPPLIER AND MODEL | Telex Terminal Communications TC 275 | Telex Terminal Communications TC 277 | Termiflex HT/2 Handheld Terminal | Termiflex HT/3 Handheld Terminal | Termiflex HT/4 Handheld Terminal |
|---|---|---|--|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 No 3275 No No No | Cluster 32 No 3270 No No No | Stand-alone 1 Yes No Std. No No | Stand-alone 1 Yes No Std. No No | Stand-alone 1 Yes No Std. No No |
| Self diagnostics | No | No | <u> </u> | _ | _ |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 480/1920 12 x 40; 24 x 80 | 480/1920 12 x 40; 24 x 80 | 20 2 x 10 | 12 1 x 12 | 24 2 x 12 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 14-inch diag. 96 7 x 9 / 7 x 8 dot matrix 1 std. No 2 std. No | 14-inch diag. 96 7 x 9/7 x 8 dot matrix 1 std. No 2 std. No | 2 x 4 128 ASCII 5 x 7 dot LED matrix No No No No | 2 x 4 96 ASCII 5 x 7 dot LED matrix No No No No | 2 x 4 96 ASCII 5 x 7 dot LED matrix No No No No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | No No L, R, U, D, H, Rt. No Std. Std. Std. Std. Std. Std. Std. Std. | No No L, R, U, D, H, Rt. No Std. Std. Std. Std. Std. Std. Std. Std. | Std., up & down No Left, Right Std. No No No O No Std. Std. Std. Std. Std. | No No Home No No No No No Opt. Screen std. | No No Home No No No No No So So So So So So So So So So So So So |
| KEYBOARD PARAMETERS | | | | | |
| Character/code set Detachability Program function keys Numeric keypad ANCILLARY DEVICES Cassette tape drive | Typewriter/data entry ASCII/EBCDIC Std. Opt. Std. | Typewriter/data entry ASCII/EBCDIC Std. Opt. Std. | Modified "Touch- tone" 128 ASCII No No Std. | Modified "Touch- tone" 128 ASCII No No Std. | Modified "Touch- tone" 128 ASCII No No Std. |
| Diskette drive (floppy disk) Serial printer Other devices | No Impact Audible alarm, light pen, mag. stripe reader opt. | No Line/impact-matrix Audible alarm, light pen, mag. stripe reader opt. | No No No None | No No No None | No No No None |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 4800 Block only Std. No No RS-232C | Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 1200 to 9600 Block only Std. No No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110/150/300/1200 Char. only No No No No RS-232C, 20 mA dc current | Half/full-duplex Asynchronous ASCII ASCII 110-2400 Char. only Opt. No No RS-232C, 20 mA dc current | Half/full-duplex Asynchronous ASCII ASCII 110-2400 Char. only Opt. No No RS-232C, 20 mA dc current |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 104-113 90-98 | 86-95 60-68 115 100 2,200 3,500 2/74 — Telex Computer Products Lease prices quoted are exclusive of maintenance | Purchase only — — 1,995 — 6/74 Over 1000 Termiflex All models display dat for \$295 (PS/1A, 6 II | Purchase only 795 1/77 Over 1000 Termiflex a via red LED's; externos) or \$175 (PS/5, 2 lits; HT/4 hax | Purchase only 1,195 1/77 Over 1000 Termiflex al power supplies sell os.); HT/5 features 2 |
| | | | | | |

| SUPPLIER AND MODEL | Termiflex HT/5 Handheld Terminal | Termiflex HT/6 Handheld Terminal | Termiflex HT/7 Handheld Terminal | Termiflex HT/8 Handheld Terminal | Terminal Data Corp. 650 |
|--|--|---|--|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 Yes No Std. No | Stand-alone 1 Yes No Std. No | Stand-alone 1 Yes No Std. No | Stand-alone 1 Yes No Std. No | Stand-alone 1 No — Std. TI Silent 700 Yes |
| Self diagnostics | _ | | _ | _ | Yes |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 12 2 x 6 | 20 1 x 20 | 40 2 x 20 | 80 4 x 20 | 1920/3840 24 x 80; 48 x 80 opt |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 2 x 4 None — No No No No | 2 x 4 128 ASCII 5 x 7 dot LED matrix No No No No | 2 x 4 128 ASCII 5 x 7 dot LED matrix No No No | 2 x 4 128 ASCII 5 x 7 dot LED matrix No No No No | 19-inch diag. 96 7 x 9 8 std. Std. No Yes |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | No No No No No No No No No No No Screen std. | Up, down std. No Left, Right, Home Std. No No No Std. No Screen std. | Up, down std. No Left, Right, Home Std. No No No Std. No Std. Screen std. | Std., up & down No Left, Right, Home Std. No No No Std. No Std. Screen std. | Opt. No U, D, L, R, H, Rt. Std. Both std. Opt. Opt. Std. Opt. Opt. Char.,line,screen std |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys | Modified "Touch- tone" 128 ASCII No | Modified "Touch- tone" 128 ASCII No No | Modified "Touch- tone" 128 ASCII No | Modified "Touch- tone" 128 ASCII No | Typewriter, data entry ASCII No Opt |
| Numeric keypad ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | Std. No No No None | Std. No No No Audible alarm std. | Std. No No No Audible alarm std. | Std. No No No Audible alarm std. | Opt. No Single Impact |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem | Half/full-duplex Asynchronous ASCII ASCII 110-2400 Char. only No No No RS-232C, 20 mA dc current No | Half/full-duplex Asynchronous ASCII 110/150/300/1200 Char. only No No No RS-232C, 20 mA dc current No | Half/full-duplex Asynchronous ASCII ASCII 110/150/300/1200 Char. only No No No RS-232C, 20 mA dc current | Half/full-duplex Asynchronous ASCII ASCII 110/150/300/1200 Char. only No No No RS-232C, 20 mA dc current | Half/full-duplex Asynchronous Asynchronous ASCII 110 to 9600 Char. Opt. Opt. Opt. RS-232C |
| Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | No Purchase only | No Purchase only 1,795 6/78 100 Termiflex | Purchase only 2,595 9/78 100 Termiflex | Purchase only 3,995 12/76 100 Termiflex | 125-250 110-250 — 1,650 up — 9/76 — Terminal Data |
| COMMENTS | See Comments on previous page | See Comments on previous page | See Comments on previous page | See Comments on previous page | |

| SUPPLIER AND MODEL | Terminal Data Corp. 675 & 675-1 | Texas Instruments 770 | Texas Instruments 771 | Texas Instruments DS1 | Trivex 40/80 |
|--|--|--|--|--|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Stand-alone 1 Yes; 19 lbs. — Std. TI Silent 700 No | Stand-alone 1 No 2780/3780 Std. TI 742 Yes | Stand-alone 1 No 3780 Std. Ti 742 Yes | Stand-alone 1 No 3780 Std. TI 742 Yes | Either 32 No 2260/2265 No No No |
| Self diagnostics | Yes | Yes | Yes | Yes | No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1024 16 x 64 | 1920 24 x 80 | 1920 24 x 80 | 1920 24 x 80 | 240/480/960 6/12 x 40; 12 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 9-inch diag. 64, 96 5 x 7 No No No No | 6 x 9; 12-inch 96 ASCII 7 x 9 dot matrix Via graphics option Std. 2 std. Programmable | 6 x 9; 12-inch 96 ASCII 7 x 9 dot matrix No Std. 2 std. Programmable | 6 x 9; 12-inch 96 ASCII 7 x 9 dot matrix No Std. 2 std. Programmable | 6 x 9 64 5 x 7 dot matrix No No No Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking | No No No | Std. Std. Yes | Std. Std. Yes Std. | Std. Std. Yes Std. | No No U, D, L, R, H, Rt. Opt. |
| Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | No No No No No Std. | Both std. Std. Std. Std. Std. Std. No Char., line std., screen prog. | Both std. Std. Std. Std. Std. Std. No Char., line std., screen prog. | Both std. Std. Std. Std. Std. No Char., line std., screen prog. | Std. Std. No Std. Std. Std. Char., line, screen std. |
| Character repeat | No | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Typewriter, data entry ASCII Std. No No | Typewriter 128 ASCII No 8 std. Std. | Typewriter 128 ASCII No 8 std. Std. | Typewriter 128 ASCII No 8 std. Std. | Typewriter/data entry ASCII Std. No Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Single Impact | Dual mini-cart. No Integral (opt.) Line printer, audible alarm | No Up to 4 drives Integral (opt.) Line printer, audible alarm | No Up to 4 drives Integral (opt.) Line printer, audible alarm | No No Impact None |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Asynchronous Asynchronous ASCII 110 to 9600 Char. No No No RS-232C | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 4800 Char./block Programmable Opt. Opt. RS-232C | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 4800 Char./block Programmable Opt. Opt. RS-232C | Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 110 to 4800 Char./block Programmable Opt. Opt. RS-232C | Half-duplex Async./sync. ASCII ASCII Up to 9600 Block only Std. No No RS-232C |
| Integral modem Integral acoustic coupler | 675-1 only | Opt. No | Opt. No | Opt. No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 45-125 mo. 39-125 mo. — — 795-995 (base) — 3/77 (7/77, 675-1) — Terminal Data | 210 210 — 4,995 — 6/77 — TI | 7,450 8/78 TI | 9,450 4/79 TI Based on 16-bit | 4/71 4,000 Trivex |
| | | TMS 9900 micro- processor; contains 24K ROM and 8K- 24K RAM; 200K bytes/minicartridge | TMS 9900 micro- processor; contains 64K RAM | TMS 9900 micro- processor; contains 64K RAM; has file structure compati- ble with TI DS90 computer family | |

| SUPPLIER AND MODEL | Trivex Plus 70 | Univac Uniscope 100 | Univac Uniscope 200 | Univac UTS 400 | Wang Laboratories PCS-II |
|--|---|---|---|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 32 No 3270/3275 No No No | Stand-alone 1 No No No Univac No | Stand-alone 1 No No No Univac No | Either 3 or 6 No No No Univac User-created progs., assembler or COBOL | Stand-alone 1 Yes (72 lbs.) 2780,3780,3741,2741 Std. IBM HASP, Burr. Yes, via user- created software |
| Self diagnostics | Yes | No | No | Std. | Opt. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 25 x 80 | 960/1024 12 x 80; 16 x 64 | 1536/1920 24 x 64/80 | 960-1920 12 x 80 to 24 x 64/80 | 1024/1920 16 x 64/24 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 8 x 11 64; 96 7 x 9 dot matrix No No 2 std. Std. | 5 x 10 64; 96 opt. Stroke No No No Std. | 7 x 10 64; 96 opt. 7 x 9 dot matrix No No No Std. | 7 x 10 64; 96 opt. 7 x 9 dot matrix No No Std. Both std. | 5.5 x 7.5 96 ASCII 5 x 7/7 x 9 dot No No No No |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | No No U, D, L, R Opt. Std. Std. Std. Std. Std. No Char., screen std. | Via software U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Via software U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St | Std. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. S | Up std. No Programmable No Std. Std. Std. Std. Std. Std. Std. Std. |
| Character repeat | Std. | std. Std. | std. Std. | Std. | No |
| KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Numeric keypad | Typewriter/data entry/console EBCDIC Std. 12 opt. Opt. | Typewriter ASCII No 4 opt. Opt. | Typewriter ASCII No 4 opt. Opt. | Typewriter ASCII Std. 4 std.; 18 opt. Std. | Typewriter 96 ASCII No 32 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No No Impact Audible alarm std., I.D. card reader, light pen opt. | Dual No Impact ∕ non-impact Audible alarm std. | Dual No Impact / non-impact Audible alarm std. | Dual Dual Impact / non-impat Magnetic stripe reader opt. | No Single/dual Impact Printers from 40 cps to 600 lpm, audible alarm |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half-duplex Synchronous BSC/SDLC EBCDIC 110-9600 Block only Std. Opt. No RS-232C | Half-duplex Async./sync. ASCII (Univac) ASCII Up to 9600 Block only Std. Std. No RS-232C | Half-duplex Async. /sync. ASCII (Univac) ASCII Up to 9600 Block only Std. Std. No RS-232C | Half-duplex Async./sync. ASCII (Univac) ASCII Up to 9600 Block Std. Std. No RS-232C | Half/full-duplex Async./sync. ASCII/BSC/Burr. ASCII/EBC./Baud. 75 to 9600 Char./block Opt. (Burroughs) Opt. Opt. RS-232C |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by COMMENTS | 85 96 150 (remote) 135 (remote) 2,900 4,185 (remote) 5/75 Over 3,000 Trivex Local price for 1-year lease of controller is \$187; \$170 for 2-year lease; \$5,390 for purchase | 155-173 | 174-192 | 233-297 (master) —149-264 —6,030-9,990 (mast.) 3,944-8,865 9/76 —Univac Prices for slave units are \$128 on 1-year lease for display station, \$4,440 for purchase of display station | |

| SUPPLIER AND MODEL | Wang Laboratories WCS-15 | Wang Laboratories 2200-T | Wang Laboratories 2200-MVP | Western Union Data Services Video 100 | Western Union Data Services Video 200 |
|---|--|--|--|---|--|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable Self diagnostics | Stand-alone 1 No 2741,2780,3780,3741 Std. IBM HASP, Burr. Yes, via user- created software Opt. | Stand-alone 1 No See comments Std. Burr. TC/TD Series Yes, via user- created software Opt. | Cluster 8 No BSC Std. Burr. TC/TD Series Yes, via user- created software Opt. | Stand-alone 1 Opt. No Std. no No | Stand-alone 1 No No Std. No No |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1024/1920 16 x 64/24 x 80 | 1024/1920 16 x 64/24 x 80 | 1920 24 x 80 | 960/1920 12/24 x 80 | 2000 25 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 7.5 x 9.5 96 ASCII 5 x 7/7 x 9 dot No No No No | 7.5 x 9.5 96 ASCII 5 x 7/7 x 9 dot No No No No | 7.5 x 9.5 96 ASCII 5 x 7/7 x 9 dot No No No No | 5.5 x 8.25 64; 95 opt. 5 x 7 dot matrix No No No No | 7 x 10, 12-in. diag. 95 ASCII 7 x 9 dot matrix No Std. Std. Std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase Character repeat | Up std. No Programmable No Std. Std. Std. Std. Std. Std. Char., line, screen std. No | Up std. No Programmable No Std. Std. Std. Std. Std. Std. Char, line, screen std. No | Up std. No Programmable Yes Std. Std. Std. Std. Std. Std. Std. Std. | No No L, R, Rt.; U, D, H opt. No Opt., addr. only No No No No No No No No No | Up std. 2 pages opt. U, D, L, R, H, Rt. Std. Both std. Std. Std. Fwd./back tab std. Std. Std. Char., line, screen std. Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter | Data entry | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | 96 ASCII No 32 std. Std. | 96 ASCII No 32 std. Std. | 96 ASCII No 32 std. Std. | ASCII No No Opt. | 128 ASCII Std. 8 std. Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | No Single/dual/triple Impact Printers from 40 cps to 600 lpm; audible alarm | No Single/dual triple Impact Printers from 40 cps to 600 lpm; audible alarm | No Single/dual/triple Impact Audible alarm (ter- minals); local, extend- ed local, or remote mode; printer support | Single Single/dual Impact Audible alarm std. | Single Single or dual drive Impact Audible alarm, buf- fered or unbuffered printer interface |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface | Half/full-duplex Async./sync. ASCII/BSC/Burr. ASCII/BSC/Baud. 75 to 9600 Char./block Opt. (Burr.) Opt. Opt. RS-232C | Half/full-duplex Async./sync. ASCII/BSC/Burr. ASCII/EBC./Baud. 75 to 9600 Char./block Opt. (Burroughs) Opt. Opt. RS-232C | Half/full-duplex Async./sync. ASCII/BSC/Burr. ASCII/EBC./Baud. 75 to 19,200 Char./block Burr. mode only Std. Opt. RS-232C | Half/full-duplex Asynchronous ASCII ASCII 110 to 19,200 Char. only No Opt. No RS-232C | Half/full-duplex Asynchronous ASCII ASCII 50 to 19,200 Char./block Opt. Std. No RS-232C, 20 mA dc std. |
| Integral modem Integral acoustic coupler | No No | No No | No No | No No | No No |
| PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | | 10,400 750 (async.)/1500 3/75 Wang Labs. | 46,650 (8 terminals) 2,000 1/78 Wang Labs. | 65 860 12/75 5,000 Western Untion | 100 1,850 7/78 150 Western Union |
| COMMENTS | Fully programmable Wang Extended BASIC language; supports full range of Wang printers, plotters, and graphics; controller price is \$750 (async.) or \$1,500 (sync.) | IBM compatibilities include 2741, 2780, 3780, 3741, 3275, and HASP; unit is fully programmable and supports full range of peripherals; 3275-emulation controller costs \$1,700 | | Data Services Built by Lear Siegler as ADM-3 and ADM-3A | Data Services |

| SUPPLIER AND MODEL | Westinghouse Model 1625 | Wordstream, Inc. (Genesis One) Model G77C "The Plug" | Zentec ZMS-50 | Zentec ZMS-70 | Zentec ZMS-90 |
|---|---|---|---|---|---|
| TERMINAL DESCRIPTION Stand-alone or cluster Maximum displays/controller Portable case IBM compatibility Teletype compatibility Other compatibility User programmable | Either 32 No No Std. Honeywell, Univac | Cluster 32 No 3270 No No | Stand-alone 1 Yes Programmable Std. Programmable Via user-created firmware/software | Stand-alone 1 Yes Programmable Std. Programmable Via user-created firmware/software | Stand-alone 1 Yes Programmable Std. Programmable Via user-created firmware/software |
| Self diagnostics | Std. | No | Std. | Std. | Std. |
| DISPLAY PARAMETERS Display positions, chars/display Display arrangement, lines x chars./line | 1920 24/18/12 x 80 | 1920 24 x 80 | 200 0 25 x 80 | 2000 25 x 80 | 2000 25 x 80 |
| Display area, h x w, inches Total displayable symbols Symbol formation Color Reverse video Programmable brightness levels Character and/or field blinking | 6.5 x 8.5 128; 256 opt. 5 x 7/9 dot matrix No Std. Std. Field std. | 7 x 10.5 64 5 x 7 dot matrix No No 3 std. No | 12-in. diag. 128 ASCII 7 x 9 No Std. 2 std. Field std. | 15-in. diag. 128/256 prog. font 7 x 9 No Std. 2 std. Both std. | 15-in. diag. 128 ASC./prog. font 7 x 9 No Std. 2 std. Both std. |
| Roll Paging Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Protected format Partial screen transmit Tabulation Character insert/delete Line insert/delete Erase | Std. 3/5 pages opt. U, D, L, R, H, Rt. No Std. Std. Std. Std. Std. Std. Std. Ctd. Std. Std. Std. Std. Std. Std. Std. S | No No U, D, L, R, H, Rt. Opt. Std. Std. Std. Std. Std. No Char., screen std. | Opt. 2 std., multiple opt. U, D, L, R, H Std. Addr. std. Opt. Opt. Fwd./back tab std. Opt. Opt. Char., block opt. | Up, down std. Multiple std. U, D, L, R, H Std. Addr. std. Std. Std. Fwd./back tab std. Std. Std. Char., block, word, paragraph std. | Up, down std. Multiple std. U, D, L, R, H Std. Addr. std. Std. Std. Fwd./back tab std. Opt. Char., block opt. |
| Character repeat | Std. | Std. | Std. | Std. | Std. |
| KEYBOARD PARAMETERS Style | Typewriter | Typewriter/data entry | Typewriter | Typewriter | Typewriter |
| Character/code set Detachability Program function keys Numeric keypad | ASCII Std. 24 on 16 keys Std. | 96 EBCDIC Std. 12 opt., 3 std. Opt. 15 keys | 128 ASCII No 24 32 Opt. | 208 ASCII Yes 32 Std. | 208 ASCII Yes 32 Std. |
| ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk) Serial printer Other devices | RS-232 interface Opt. RS-232 interface | No No Impact Audible alarm, ID card reader, light pen opt. | No Opt. Audible alarm std. | — Dual mini std. Opt. Audible alarm std., 8" diskette drives | — Dual regular std. Opt. Audible alarm std., various options |
| TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Speed, bits/second Format: character, line, or block Multipoint operation (pollable/addr.) Auto answer Auto call Terminal interface Integral modem | Half/full-duplex Async./sync. User defined ASCII F0 to 9600 Char./block Opt. No No RS-232 B/C, V.24 No | See comments | Half/full-duplex Sync./async. BSC ASCII std.; others 110 to 19,200 Char., block Programmable Yes No RS-232C, 20 mA | Half/full-duplex Sync./async. SC; SDLC opt. ASCII std.; others 110 to 19.200 Char., block Programmable Yes No RS-232C 20 mA, RS-422 No | Half/full-duplex Sync./async. BSC; SDLC opt. ASCII std.; others 110 to 19,200 Char., block Programmable Yes No RS-232C, 20 mA, RS-422 No |
| Integral acoustic coupler PRICING AND AVAILABILITY Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Display station, purchase, \$ Controller, purchase, \$ Controller, purchase, \$ Date of first production delivery Display units installed to date Serviced by | 3,100 4,000 11/76 3,000 Third party | | | | |
| COMMENTS | Controller is stan- dard CRT with addi- tion of one plug-in module; intercon- nection of CRT's is via two twisted pairs | Relaces IBM 3277-2 Display Sta- tion; plugs into IBM 3271-2 (remote), 3271-2 (local), or 3791 (remote) Con- trol Units and Local Display Adapter for System/3 | Low-cost 8080A- based terminal with similar video fea- tures as ZMS-70/ 90; intelligent forms and editing capability; allows user code to be "down-loaded"; up to 16K RAM | Features similar to ZMS-90, but including built-in minidiskette drives; diskette-based operating system with editor, assembler, and utilities; up to 64K RAM | Successor to 9003 Series; features 8080A CPU, soft character gener- ator; list-driven video architecture, diskette-based op- erating system soft- ware; up to 64K RAM |